Winnebago Landfill Winnebago County, Illinois



Permit Number 1991-138-LF Illinois EPA Site No. 2018080001

Application for Significant Modification For Permit Renewal Groundwater Impact Assessment Review

Volume 2 of 2

November 2012



Submitted to:
Illinois Environmental Protection Agency
Bureau of Land
Springfield, Illinois

Prepared for: Winnebago Reclamation Service, Inc. 8403 Lindenwood Road Rockford, IL 61109



3300 Ginger Creek Drive Springfield, Illinois 62711

Tel: (217) 787-2334; Fax: (217) 787-9495



November 14, 2012

Stephen F. Nightingale Manager, Permit Section Bureau of Land Illinois Environmental Protection Agency 1021 North Grand Ave. East P.O. Box 19276 Springfield, IL 62794-9276

2018080001 - Winnebago County Winnebago Landfill - Northern and Southern Expansion Units Renewal of Permit No. 1991-138-LFM

Dear Mr. Nightingale:

On behalf of Winnebago Landfill, submitted herein are an original and three copies of an application for renewal of Permit No. 1991-138-LFM pursuant to 35 Illinois Administrative Code Sections 813.301 through 813.305. The application is comprised of two volumes; Volume 1 is authored by Shaw and Volume 2 by Andrews Engineering, Inc. The required application forms (Certification of Authenticity and LPC-PA1) are provided in Appendix A of Volume 1.

Please contact Tom Hilbert at (815) 963-7516 if you have any questions or require additional Sincerely

Brad J. Hunsberger, LPG

Director of Hydrogeological Services BJH:tns:sjb

Enclosure

Tom Hilbert - Rock River Environmental Services Evan Buskohl – Rock River Environmental Services Bernie Shorle US EPA Region 5

TABLE OF CONTENTS

1.	INTRODUCTION	1
2.	PERMIT RENEWAL REQUIREMENTS	2
3.	EVALUATION OF THE GROUNDWATER IMPACT ASSESMENT – SOUTHERN UNIT	2 3 3
4.	EXISTING GROUNDWATER QUALITY – SOUTHERN UNIT	5
5.	EvaluAtion of the groundwater impact assessment – SOUTHERN UNIT EXPANSION.	6
6.	EVALUATION OF THE GROUNDWATER IMPACT ASSESSMENT – NORTHERN UNIT	8 8
7.	EXISTING GROUNDWATER QUALITY – NORTHERN UNIT	.10
8.	CONCLUSIONS	.14

TABLES

Table 1	Permit Modifications Since 2008 Renewal
Table 2A	Southern Unit Confirmed AGQS Exceedences
Table 2B	Southern Unit Confirmed Exceedences (Condition Viii.13)
Table 3	Southern Unit Leachate Data
Table 4	Southern Unit Leachate Evaluation
Table 5	Southern Unit/Expansion Wedge Leachate Evaluation
Table 6a	Northern Unit Confirmed AGQS Exceedences
Table 6b	Northern Unit Confirmed Exceedences (Condition Viii.13)
Table 7	Northern Unit Leachate Analytical
Table 8	Northern Unit Leachate Comparisons To Initial Source Concentrations
Table 9	GMZ Parameters
Table 10	Northern Unit Leachate Comparisons To Contaminant Transport Model

FIGURES

Figure 1 – Area Location Map

Figure 2 – Site Location Map

Figure 3 – 2012 Upper Zone GMZ Boundary Map

Figure 4 -2012 Lower Zone GMZ Boundary Map

APPENDICES

Appendix A – Potentiometric Surface Maps

Appendix B – Second Quarter 2008 Laboratory Equipment Blank Documentation

1. INTRODUCTION

Winnebago Landfill is located approximately five miles south of Rockford, Illinois. The town of New Milford is approximately one and one-quarter miles north of the site, with the Kishwaukee River running east-west through the town approximately the same distance from the site. Lindenwood Road runs along the east boundary of the site while a 100-year floodplain of Killbuck Creek forms the western border of the Northern and Southern Units.

Land use in the region is predominately industrial and agricultural, with some residential and recreational areas. Quarries and gravel pits are located northeast and east of the site. Due east of the site is the former Acme Solvents facility (see Figure 11). The Acme Solvents facility was in operation from 1960 to 1973 and was used for the disposal of solvent still-bottoms, non-recoverable solvents, paints and oils in unlined pits as well as the burial of drums. Approximately two-thirds of a mile to the northwest of the Northern Unit is the Meridian Forest Preserve. Approximately one mile to the southwest is Orchard Hills landfill facility.

The Winnebago Landfill facility currently consists of four separate solid waste units. The Northern and Southern Units, which ceased accepting waste on September 8, 2000 and March 31, 2011, respectively, are authorized under Illinois EPA Permit No. 1991-138-LF. The North Expansion Unit, which is located between the existing Northern Unit and Baxter Road, began operation under Illinois Permit No. 2006-221-LF on May 16, 2008 and is currently active. The West Expansion Unit was permitted via Illinois Permit No. 2010-133-LF but has not been developed at this time. A site map delineating each of the units is provided in Figure 2.

Until the initial application for significant modification was permitted in 1993, the facility contained one waste disposal unit, identified as Pagel's Pit (Northern Unit). In 1990, a local siting application for the expansion of the landfill to the south was approved by the Winnebago County Board. A subsequent permit application was submitted to the Illinois EPA on April 5. 1991 for approval of the expansion of the facility. That submittal was identified as the Application for Significant Modification but was specific to the Southern Unit. This application was completed in accordance with the rules defined in 35 Illinois Administrative Code (Ill. Adm. Code) Part 811. No operational or design changes were proposed for the Northern Unit as part of the 1991 permit application. The facility operating permit 1991-138-LF was renewed with the issuance of Modification No. 6 on June 18, 1998 (Application Log No. 1998-001) and Modification No. 24 on March 26, 2004 (Application Log No. 2002-373). Permit Modification No. 25 (Log No. 2003-239) approved the inclusion of the area between Southern and Northern The design of the expansion maintained separation between the Northern Unit waste and the Southern Unit waste via the Northern Unit final cover system—a synthetic liner and geocomposite drainage blanket that routes liquids in the expansion area to the Southern Unit's leachate collection system. The facility operating permit 1991-138-LF was again renewed with the issuance of Modification No. 43 on April 13, 2010 (Application Log No. 2008-018).

Due to groundwater contamination adjacent to the Northern Unit (at the ACME Solvents site), the U.S. EPA signed a Record of Decision (ROD) in June 1991 requiring Remedial Design and Remedial Action plans. The ROD was incorporated in a Consent Decree dated February 6, 1993. The facility currently exists with a Groundwater Management Zone (GMZ) and approved remediation program via natural attenuation and source reduction. A permit application was submitted July 10, 1995 (Illinois EPA Log No. 1995-250) to facilitate compliance of the Northern Unit with the applicable requirements of 35 Ill. Adm. Code Part 811 and 812, pursuant to

Sections 814.104, 814.301, and 814.302. Additional information pertaining to the Northern Unit is provided in Section 6.

2. PERMIT RENEWAL REQUIREMENTS

35 Ill. Adm. Code 813 Subpart C provides the procedure for the submission of permit renewal applications. Specifically, Section 813.303 lists the information necessary for renewal, which for clarity, has been provided below.

Section 813.303 Information Required for a Permit Renewal

- a) The operator shall submit only that information required by 35 III. Adm. Code 812 that has changed since the last permit review by the Agency.
- b) The operator shall update the groundwater impact assessment in accordance with Section 813.304; and
- c) The operator shall provide a new cost estimate for closure and post-closure care pursuant to 35 III. Adm. Code 811 Subpart F based upon the operations expected to occur in the next permit term.

Volume I of this application addresses items pertaining to the engineering and operational aspects of the facility. Therefore, subsections 813.303(a) and 813.303(c) above are addressed in Volume I. Volume II specifically addresses issues pertaining to hydrogeologic aspects of the application. Since the Northern and Southern Units are separate units and contain separate engineering designs and groundwater monitoring programs, compliance with 35 III. Adm. Code 813.303(b) and 813.304 is discussed separately for each unit in Sections 3 and 6 below.

3. EVALUATION OF THE GROUNDWATER IMPACT ASSESMENT – SOUTHERN UNIT

3.1 General Information

A review of the permitted Groundwater Impact Assessment (GIA), submitted as part of an Application for Significant Modification (Illinois EPA Permit No. 1991-138), has been completed in accordance with 35 III. Adm. Code 813.304(a)(1-5). The original GIA approved in the initial significant modification permit (1991-138-LFM) and subsequent review as part of Illinois EPA Log No. 1998-433 were evaluated as part of the last two permit renewal applications (Illinois EPA Log Nos. 2002-373 and 2008-018). The parameters utilized in that original GIA were deemed appropriate and the contaminant transport model successful based on the review criteria of 35 III. Adm. Code 813.304(a)(1-5). However, since the 2008 renewal, a change in the design and operation of the liner and leachate collection system has been permitted as discussed in Section 3.3 below. The following sections provide a discussion of the components of the GIA and any applicable change to the landfill operation and liner design.

3.2 New or Changed Operating Conditions

A change or addition to the operating conditions for the facility has been approved since the last permit renewal application (Log No. 2008-018). The approved modifications that occurred since the last renewal are listed in Table 1. As shown, none of the changes in the facility or its

operation will result in an increase in the probability of exceeding a groundwater quality standard at or beyond the zone of attenuation.

3.3 Changes in the Design and Operation of the Liner and Leachate Collection System

There have been no changes in the design and operation of the liner or leachate collection system since the last permit renewal application (Log No. 2008-081, See Table 1).

3.4 Changes Due to More Accurate Geological Data

Geological information has been collected throughout the operating life of the facility, including boring programs and the installation of monitor wells, piezometers, and gas probes as part of on-going operations and facility expansions. Comprehensive geologic information has been presented in numerous applications submitted to the Illinois EPA but are not herein named. Since the last permit renewal application, no additional hydrogeologic information has been obtained that would result in an increased probability of constituents exceeding a groundwater quality standard beyond the zone of attenuation. The information utilized in the GIAs remains current and accurate. This applies to the GIA conducted as part of the Southern Unit Expansion defined in the following sections.

3.5 Changes Due to Modified Groundwater Conditions Due to Offsite Activity

3.5.1 Groundwater Flow Conditions

The historical direction of movement within the uppermost aquifer is westward in the bedrock upland east of the site and to the west-northwest in the unconsolidated sediments. Potentiometric surface maps provided in Appendix A indicate groundwater movement is generally west-northwest south of the Northern Unit. Dewatering activities implemented as part of cell development within the North Expansion Unit have caused the groundwater movement to temporarily deviate slightly in a northward direction near the Northern Unit. Construction dewatering will be completed within two years. Therefore, the original model still remains applicable for long-term evaluation of the closed northern unit.

As shown in Figure 2, Kilbuck Creek is located west of the Southern, Northern, and North Expansion Units. Shallow groundwater may discharge to Kilbuck Creek while groundwater in the lower part of the unconsolidated sediments and deeper bedrock moves beneath Kilbuck Creek. Kilbuck creek is both a gaining and losing stream dependent upon hydrogeologic and atmospheric conditions. During drier periods where the water table drops below the bottom of the creek bed, surface waters feed the groundwater system. During wetter periods where the water table is high (above the bottom of the creek bed) the groundwater system will recharge the stream and wetlands. This fluctuation allows mixing of surface water (and, therefore, surface water constituents) with groundwater (and any groundwater constituents) often on a seasonal basis. In addition, dependent upon the creek stage, the surface waters of both the creek and the wetland mitigation area may be contiguous.

The aquifer system beneath the facility, which includes both the saturated sand and gravel and the upper weathered/fractured part of the dolomite, extends to an approximate depth of 665 feet mean sea level. East of the landfill and beneath the eastern quarter of the Northern Unit, the water table occurs within the dolomite bedrock. Beneath the western three-fourths of the site and within the Kilbuck Creek Valley, the water table occurs within the sand and gravel deposits. Previous hydrogeologic investigations and evaluations have shown that vertical gradients do

exist within the uppermost aquifer but are typically slight at any individual location. Therefore, groundwater elevations from the bedrock wells and wells screened in the unconsolidated materials (sand and gravel) were used to create one potentiometric surface for each quarterly sampling period. As expected, the hydraulic gradients are greater at the east end of the facility where the bedrock is higher and flat near Kilbuck Creek.

Potentiometric surface maps (compiled using data obtained from the permitted monitor wells in both the Northern and Southern Units) are provided in Appendix A. These maps present data obtained since the previous renewal application (first quarter 2008 to fourth quarter 2012) to demonstrate that the flow direction and hydraulic gradients have remained relatively consistent for the Southern Unit. Therefore, assumptions used to complete the GIA remain representative of current hydrogeologic conditions. Modification to the GIA is not warranted. These conclusions are also applicable to the Southern Unit Expansion GIA.

3.5.2 Background Groundwater Quality

The initial AGQSs for the Southern Unit were determined from data obtained from the permitted upgradient/background wells. However, revisions to several background values have included data from wells R05S, R29S, and G29D as part of the statistical derivation. Although permitted as zone of attenuation wells, these wells are actually hydraulically upgradient to the Southern Unit and provide additional information on the background groundwater quality. Monitoring wells G13S and G13D are contained in the monitoring well networks for both the Northern and Southern Units. The groundwater quality for these two wells along with R05S (Southern Unit) are not evaluated with respect to the permitted AGQSs but are reviewed based on trend analyses in accordance with Condition VIII.24 of Permit No. 1991-138-LF (Modification No. 58).

Table 2A list parameters that exhibited a confirmed increase during the review period (first quarter 2008 through third quarter 2012) based on comparisons to the AGQS values. The increases reported for upgradient wells (R05S, G13S, G13D, and G22D) appear to be representative of background conditions and unaffected by waste disposal operations, based on the current and historical potentiometric surface information. The background groundwater quality has not changed sufficiently to invalidate any of the assumptions or results from the GIA submitted as part of the initial application for significant modification. These conclusions are also applicable to the Southern Unit Expansion GIA.

3.6 Southern Unit Changes Due to Leachate Characteristics

The leachate characteristics for the last five years of operation have been reviewed based on initial predicted model concentrations to ensure the GIA continues to be appropriate. Model prediction factors were not calculated for the initial GIA. Instead, the actual leachate concentrations were used as the source concentrations; the subsequent model results were predicted groundwater concentrations. The predicted groundwater concentrations were then compared directly to the proposed AGQSs for determination of a passing model. Rerunning the model scenarios with the current maximum leachate concentrations (as done in the initial GIA) is not necessary. As part of the 2002 Permit Renewal Application (Log No. 2002-373), model prediction factors were calculated for each surrogate and individually modeled parameter by dividing the "computer simulated concentration" by the initial source concentration used for that surrogate group or parameter. This resulted in a model prediction factor that is the proportion of the simulated parameter concentration (the derived modeling concentration) to the initial source concentration (initial input concentration). Model prediction factors were calculated for each

detected leachate parameter except as identified below. The model prediction factor was then multiplied by the current maximum leachate concentration and compared to the current permitted AGQSs for the parameters within the surrogate group or individual parameter. If the product was less than the permitted AGQS, compliance with 35 III. Adm. Code 811.317(b) had been demonstrated.

The model prediction factors determined during the 2002 renewal have been multiplied by the maximum leachate concentration recorded during the current review period (first quarter 2008 through third quarter 2012) and compared to the current AGQS. If the product is less than the AGQS, compliance with 35 III. Adm. Code 811.317(b) has been demonstrated.

Table 3 presents the leachate data for the Southern Unit for the review period. Table 4 lists the maximum leachate concentration recorded during the review period. Table 4 also lists the currently permitted AGQSs, the model prediction factors and the predicted model concentrations. As shown, the predicted model concentrations for 1-propanol, 2-butanone, 4methly-2-pentanone, and acetone exceeded the permitted AGQS value. The maximum leachate concentration for all four subject parameters was recorded in well L302 during the second quarter 2008 sampling event. The second quarter 2008 results observed at L302 are significantly higher than previous or subsequent concentrations recorded for these parameters (see Table 3). In addition, detections of 2-butanone (12 ug/L) and acetone (83 ug/L) in the second guarter 2008 equipment blank indicate that the elevated concentrations observed at L302 are associated with laboratory and/or sampling artifact (Appendix B). Given the lack of assurance in the accuracy of the results, it is appropriate to remove the second guarter 2008 leachate results for 1-propanol, 2-butanone, 4-methyl-2-pentanone, and acetone from the maximum leachate concentration calculation. The next highest concentrations for all four parameters (1-propanol, 2-butanone, 4-methly-2-pentanone, and acetone) were recorded in well L302 during second quarter 2012. The second quarter 2012 concentrations for all four parameters are below the AGQS. Therefore, the assumptions and data utilized in construction of the GIA for the Southern Unit are still appropriate. No modifications to the GIA are necessary.

3.7 Southern Unit Evaluation Conclusions

Based on the above discussion, it is concluded that the conditions applicable to the original GIAs have not changed in such a way as to result in violations of groundwater standards pursuant to 35 III. Adm. Code 811.320 at or beyond the zone of attenuation. A few monitoring wells show concentrations of parameters in groundwater that exceed the groundwater standards. However, these observed increases are generally upgradient, related to naturally occurring conditions and/or sources other than the landfill. A detailed discussion of the groundwater quality for the Southern Unit is provided in Section 4. Based on the information presented above and in accordance with 35 III. Adm. Code 813.304(b), a new GIA is not required for the Southern Unit or the Southern Expansion Unit.

4. EXISTING GROUNDWATER QUALITY - SOUTHERN UNIT

Table 2B lists all wells and parameters exhibiting a confirmed increase (as defined by Permit Condition VIII.13) during the review period (first quarter 2008 through fourth quarter 2012). In accordance with Permit Condition VIII.13, an exceedence is defined as any concentration that exceeds the respective AGQS/MAPC value and/or any concentration of an organic parameter that exceeds the respective preceding concentration.

As shown, the vast majority of the confirmed increases were recorded for wells that are hydraulically upgradient to the waste unit (R05S, G13S, G13D, R11S, G11D, and G22D).

As mentioned in Section 3.5.2 above, monitoring wells G13S and G13D are contained in the monitoring well networks for both the Northern and Southern Units. The groundwater quality for these two wells along with R05S are not evaluated with respect to the permitted AGQS values but are reviewed annually based on trend analyses in accordance with Condition VIII.24 of Permit No. 1991-138-LF (Modification No. 58). The most recent evaluation of trends for wells R05S, G13D, and G13S was submitted May 1, 2012 as part of the annual report required by Permit Condition XI.2 (Modification No. 53).

In accordance with Condition VIII.15 of the permit, alternate source demonstrations were submitted for the remaining confirmed exceedences listed on Table 2B. The application in which each exceedence was addressed is provided on the table for reference. With the exception of Log No. 2012-459, all of the referenced applications have been approved with the issuance of Permit Modification Nos. 46 (Log No. 2010-152) and 51 (Log Nos. 2011-004 and 2011-118). Application Log No. 2012-459 was submitted October 1, 2012 as an alternate source demonstration for the second quarter 2012 confirmed increase of tetrachloroethene at R11S. This application is currently pending Illinois EPA review.

Based on a review of parameter concentrations, groundwater flow conditions in the vicinity of the unit and that the Southern Unit has been recently constructed with a geo-composite liner system, any observed increases appear to be attributable to background conditions unassociated with the Southern Unit. The groundwater quality evaluation as presented herein is also applicable to the Southern Unit Expansion.

5. EVALUATION OF THE GROUNDWATER IMPACT ASSESSMENT – SOUTHERN UNIT EXPANSION

As stated previously, the Southern Unit Expansion consists of an area located between the Northern and Southern Units, including an area overlapping the south side slope of the Northern Unit. Calculations were completed as part of the expansion application (Log No. 2003-239) that accounted for leachate collection and removal, which incorporated the total waste footprint extending up the Northern Unit side slope. Along the side slope of the Northern Unit, the new wastes are separated from the existing wastes by the existing Northern Unit final cover plus a 60-mil HDPE synthetic liner overlain by a geocomposite drainage blanket. As a result, the GIA for the Northern Unit required no modification. The expansion application included a GIA that evaluated the potential impact of the area left between the two units that had not been evaluated with respect to the requirements of 35 III. Adm. Code 811.317. The analytical model utilized was a POLLUTE simulation of solute transport through the liners and unsaturated sediments followed by dilution in the underlying saturated sediments. The basic conclusions of the GIA were:

- The simulated prediction factor at the end of extended compliance of 2.37 x 10-7.
- A first-order error analysis indicated a standard deviation of the simulated prediction factor of 3.81 x 10-5. The associated cumulative probabilities showed a 60.1 percent likelihood that the prediction factor was less than 10⁻⁵ and 99.6 percent that it was less than 10⁻⁴.

 For all compounds on the annual G1 list, the simulated groundwater impacts were less than the AGQS.

The modeled prediction factor used was highly conservative; it assumed a maximum leachate solute concentration and maximum advective flux through the liner. It did not account for the time lag associated with horizontal flow beneath the landfill, transport across the zone of attenuation and sorption or biochemical decay. The Illinois EPA found the additional modeling to be appropriate and as a result approved the expansion and additional GIA on March 26, 2004 via Permit Modification No. 24.

Table 5 lists the maximum leachate concentrations for the Southern Unit for all data during the review period. That table also lists the permitted AGQS, the model prediction factor and the predicted model concentrations. As shown, all of the predicted model concentrations are below the respective AGQS values. Therefore, leachate characteristics have not changed such that model results from the initial GIA would result in the probability of an exceedence of the AGQS beyond the zone of attenuation. No modifications to the GIA are necessary.

6. EVALUATION OF THE GROUNDWATER IMPACT ASSESSMENT – NORTHERN UNIT

6.1 General Information

Subsequent to siting approval in 1990 from the Winnebago County Board, Winnebago Landfill submitted the initial significant modification application pursuant to the newly approved regulations (Title 35 Subtitle G) to the Illinois EPA on April 5, 1991. The application incorporated the existing Northern Unit with a proposed expansion that would become the Southern Unit. The design and operational modifications proposed in that submittal were specific only to the Southern Unit; no changes were proposed for the Northern Unit.

The Northern Unit was added to the National Priorities List in June 1986 due to groundwater contamination associated with the upgradient Acme Solvents Superfund site. Based on perceived groundwater contamination adjacent to the Northern Unit (at the ACME Solvents site), the U.S. EPA signed a Record of Decision (ROD) in June 1991 requiring Remedial Design and Remedial Action plans. The ROD was incorporated in a Consent Decree entered in the U.S. District Court for the Northern District of Illinois, Western Division, Case No. 92-C-20346 in February 1993. A ROD amendment was submitted to the U.S. EPA in 1997 for a new or revised Consent Decree to reflect a new Statement of Work (SOW) due to a change in the remedy. The subject ROD was issued in 1999.

The facility currently exists with a GMZ and approved remediation program via source reduction and natural attenuation. The subject permit application was submitted July 10, 1995 (Illinois EPA Log No. 1995-250) to facilitate compliance of the Northern Unit with the applicable requirements of 35 Ill. Adm. Code Part 811 and 812, pursuant to Sections 814.104, 814.301, and 814.302. The GMZ and Corrective Actions status is re-evaluated every five years, in accordance with the review schedule set by the U.S. EPA, with the most recent evaluation submitted May 1, 2012 (Log No. 2012-171).

An application for Significant Modification was submitted to the Illinois EPA in July 1995 (Log No. 1995-250) to facilitate compliance of the Northern Unit with the applicable requirements of 35 III. Adm. Code Part 811 and 812, pursuant to Sections 814.104, 814.301,

and 814.302. The referenced application included a GIA for the Northern Unit. At the time of the above referenced application, the Northern Unit was conducting remedial action or preparing to implement remedial designs. The groundwater quality at that time consisted of a few parameters in exceedence of their respective background concentrations. Therefore, the GIA was directed toward assessing the potential impacts of the facility after completion of the remedial activities and was used to evaluate the effectiveness of the remediation design. The remedial activities included completion of redesigned final cover system and implementation of a comprehensive leachate/gas extraction system, both designed to control and reduce the contaminant source. As source control measures reduce concentrations near the waste unit boundary, intrinsic remediation was selected to reduce remaining elevated parameter concentrations within the GMZ.

The original GIA for the Northern Unit was evaluated as part of the last permit renewal application (Illinois EPA Log No. 2008-018) submitted in January 2008. The parameters utilized in that original GIA were deemed appropriate and the contaminant transport model successful based on the review criteria of 35 Ill. Adm. Code 813.304(a)(1-5). This application will evaluate any changes in the facility or its operation since the 2008 renewal that would result in an increased probability of a constituent exceeding a groundwater standard beyond the zone of attenuation.

6.2 New or Changed Operating Conditions

Since the Northern Unit has been certified closed via Affidavit for Certification of Closure in accordance with the permitted design specifications, no new or changed operating conditions have occurred that would adversely affect the results of the initial GIA and therefore no revision to the GIA is necessary.

6.3 Changes in the Design and Operation of the Liner and Leachate Collection System

The contaminant transport model contained in the original GIA considered the design of the existing liner system along with that of the leachate extraction system subsequently implemented. The Northern Unit was certified closed in accordance with the permitted design specifications. All approved permit modifications since the 2008 renewal are listed in Table 1. None of the approved modifications affected the liner or leachate collection system for the Northern Unit. Therefore, no new changes to the design or operation of the liner or leachate collection systems have occurred since the GIA was completed.

6.4 Changes Due to More Accurate Geological Data

The hydrogeologic conditions for both the Northern and Southern Units are similar. Geologic and hydrogeologic investigations conducted for either unit helped define the facility hydrogeologic characteristics. No additional geologic information has been obtained contrary to that presented in the GIA as to invalidate the initial model or results. The information utilized in the GIA remains current and accurate.

6.5 Changes Due to Modified Groundwater Conditions Due to Offsite Activity

6.5.1 Groundwater Flow Conditions

The groundwater flow conditions have been evaluated using data from wells located adjacent to both waste units. A detailed discussion of groundwater movement within the facility premises is

provided in Section 3.5.1 above. The discussion is not reproduced in this Section. As stated in the referenced section, construction dewatering activities associated with the North Expansion Unit have caused the groundwater movement to temporarily deviate slightly in a northward direction near the Northern Unit. Construction dewatering will be completed within two years. Therefore, the original model still remains applicable for long-term evaluation of the closed northern unit. Modification to the GIA is not warranted.

6.5.2 Background Groundwater Quality

The initial background concentrations for the Northern Unit were determined from data pooled from four wells located east of Lindenwood Road near the Acme Solvent property (B-8, STI-2S, STI-2I, and STI-2D) from 1990 through 1992. The Applicable Groundwater Quality Standards (AGQSs) were proposed in the initial significant modification application and subsequent addendums. Addendum 3 to the initial significant modification, dated February 10, 1993, provided the first full listing of routine AGQS values derived from wells G09M, G09D, G13S, and G13D. Since the time the background concentrations were obtained, remediation at the Acme Solvent facility has been reduced to groundwater extraction from a cut-off trench. In addition, a quarry and sand and gravel pit began operation east of Acme Solvent upgradient of the landfill facility. Both facilities are located upgradient to the landfill. The approximate location of the quarry is shown in Figure 1. These activities have likely affected the current background conditions. To account for changes in the background groundwater quality since 1993, revised AGQS values for 60 parameters were submitted and subsequently approved on March 26, 2004 with the issuance of Modification 24 to the current permit.

Table 6A list parameters (non-GMZ) that exhibited a confirmed increase during the review period (first quarter 2008 through third quarter 2012) based on comparisons to the AGQS/MAPC values. The increases reported for the upgradient wells (G09D, G09M, G13D, G13S, and G20D) appear to be representative of background conditions and unaffected by waste disposal operations, based on the current and historical potentiometric surface information. The background groundwater quality has not changed sufficiently to invalidate any of the assumptions or results from the GIA submitted as part of the initial application for the Northern Unit.

6.6 Changes Due to Leachate Characteristics

Leachate concentrations utilized in the GIA for the Northern Unit were obtained from the analyses of samples collected from four different points. The source concentrations utilized for evaluation of the contaminant transport model were derived by the mean concentration of the four sets of analyses plus two standard deviations. The Northern Unit ceased accepting waste in September 2000. Therefore, during the review period (2008 through 2012), no new wastes have been placed in the Northern Unit. Leachate quality is expected to vary but only due to degradation of the wastes.

To compare the leachate characteristics from the review period to those used in the initial GIA, data from four leachate monitoring points (L313, L315, L317, and L318) were compiled. The leachate analytical results are presented in Table 7. Table 8 lists the mean and standard deviation calculations for leachate concentrations during the current review period, along with the leachate concentrations used for the initial GIA. The current leachate concentrations are similar to those used for the source concentrations, with some higher than the 1995 values.

Table 9 provides a list of the GMZ parameters. These parameters, along with the parameters listed on Table 6B (confirmed exceedences) and parameters that were not modeled as part of the initial GIA were evaluated with respect to the contaminant transport model (CTM) contained in the initial GIA report (GeoTrans, 1995c). The maximum leachate concentrations were multiplied by the Model Prediction Factor (MPF) identified in Section 3.2 of the 1995 Report, resulting in a predicted model concentrations at the edge of the zone of attenuation. The predicted model concentrations were compared to the current AGQS values to determine if the CTM still indicates compliance with the groundwater quality standards. As shown by Table 10, the predicted model concentrations are below the AGQS values for each listed parameter. Therefore, the CTM results indicate the groundwater quality should meet the permitted standards.

Prior to the completion of the GIA for the Northern Unit, groundwater impacts had been identified attributable to the waste unit. Detailed investigations were completed and findings were submitted to both the Illinois and the US EPAs. As stated in Section 1, the U.S. EPA signed a ROD in June 1991 requiring a Remedial Design/Remedial Action (RD/RA) plan. The ROD was incorporated in a Consent Decree. The RD/RA Plan was implemented and included comprehensive leachate and gas extraction and final cover systéms. The final cover system was completed in 2002, finalizing the approved remedial measures. It was stated in the initial GIA that "existing impacted groundwater is estimated to be cleaned up in five to ten years (GeoTrans, 1995c)." This inferred five to ten years after implementation of the remediation systems.

The most current reevaluation of the GMZ was conducted during 2012. Application Log No. 2012-171 was submitted to the Illinois EPA for review on May 1, 2012 and approved on October 2, 2012 as Permit Modification No. 57. The application concluded that although a few GMZ parameters are still detected at concentrations above backgrounds, significant improvements to groundwater quality are evident as demonstrated by the decreases in individual parameter concentrations and GMZ extents. In addition, the organic constituents that prompted the remedial actions are typically not detected in groundwater downgradient of the facility. These improvements in groundwater quality demonstrate that the remedial measures are effective and appear to be functioning to meet the estimated timeline given in the initial GIA.

7. EXISTING GROUNDWATER QUALITY - NORTHERN UNIT

This section summarizes the groundwater quality for the Northern Unit of Winnebago Landfill. As shown by Figure 2, 3, and 4, the monitoring network for the unit contains 35 groundwater monitoring points. Of the 35 wells, five are designated as background groundwater quality wells (upgradient), one is a compliance boundary well at the edge of the zone of attenuation and the remaining wells monitor within the zone of attenuation downgradient and sidegradient of the landfill. The GMZ encompasses all 35 Northern Unit monitoring points and three surface water sampling points. The GMZ parameters are listed in Table 8. Groundwater quality for the Northern Unit and the GMZ are discussed separately in the sections below.

7.1 Groundwater Management Zone

The results of historical groundwater sampling at Winnebago Landfill indicated that impacted groundwater was present beneath and downgradient to the Northern Unit of the facility. Elevated levels of inorganic compounds and organic solvents were detected, which prompted the site's 1995 applications for a GMZ. Although organic compounds were previously detected

within the GMZ and prompted the NPL listing and corrective actions, the actual boundaries were determined by inorganic concentrations. The organic compounds were attributed to the ACME Solvent facility. The GMZ delineated the three-dimensional extent of groundwater that exhibits concentrations in excess of the AGQS and was defined by the furthest extent of leachate constituents above those standards.

In the 1995 applications, chloride and ammonia were chosen to demarcate the GMZ boundary because the extent of the elevated concentrations of these compounds incorporated the largest area. Two zones (Upper Zone and Lower Zone) were developed in order to address differences in groundwater quality seen between the upper and lower parts of the sand and gravel aquifer. The limit of the GMZ was determined not to extend to the dolomite bedrock since no contaminants were detected in bedrock wells downgradient of the waste unit. Although only slight differences in hydraulic head existed between the bedrock and the Upper Zone, groundwater quality indicates appreciable differences in concentrations. These variations are likely due to the slight upward flow from the bedrock zone to the lower sand and gravel in addition to the different flow regimes between the Upper and Lower Zones. As noted in section 3.5.1, shallow groundwater normally discharges to Killbuck Creek while deeper groundwater flows beneath the creek.

The remedial measures and remedial performance monitoring program implemented pursuant to U.S. EPA guidelines were also the chosen remedial actions for the GMZ and were incorporated into the 1995 Permit Renewal and GMZ applications (Illinois EPA Application Log Nos. 1995-250 and 1996-058, respectively). The remedial measures, consisting of source reduction and natural attenuation, were implemented pursuant to a 1997 ROD Amendment for a new or revised Consent Decree, which reflected a new SOW due to a change in the remedy (issued in 1999). Source reduction was accomplished via three corrective measures: construction of a final cover; installation of additional leachate extraction wells; and installation of a gas extraction system. The concentrations of chlorinated compounds attributable to the Acme Solvent site decreased significantly during the 1990s due to the installation and operation of various remedial systems upgradient of the landfill at the Acme Solvent site. As such, the remedies designated for these compounds for the Northern Unit were deemed unnecessary.

The final cover for the Northern Unit was constructed in two phases. The western portion was completed in 1998 and the eastern portion in July 2001. The final cover inhibits infiltration of precipitation, thereby significantly reducing leachate production. A collection system, which includes 35 vertical dual gas/leachate extraction wells, was also installed with the recovered gas being directed to a flare system and leachate to storage tanks. Subsequent to completion of the final cover placement, the gas extraction system was modified in late 2002 to include a larger capacity system (2,500 cfm system vs. the initial 1,000 cfm system). This system enhancement considerably increased the efficiency of the gas extraction system.

The GMZ boundaries, as depicted in 1995, were based on one set of data (March 1995) obtained while the Northern Unit was active (four years prior to initial closure activities). A reevaluation of the GMZ was conducted in 2004 pursuant to Condition VIII.22 of Permit No. 1991-138-LF, Modification No. 24. The evaluation was submitted July 15, 2004 as Illinois EPA Application Log No. 2004-257 (approved by Permit Modification No. 28). The results of the evaluation indicated that the large majority of GMZ parameter concentrations substantially decreased, many to levels below the permitted AGQSs. Revised GMZ boundaries were similar to those depicted in 1995, although the 2004 perimeter was extended to encapsulate a small number of wells that were not included within the initial GMZ. The revision included extending the lower boundary of the GMZ in the vicinity of upgradient well G09D (and former well G14D)

to include the upper portion of the dolomite bedrock. Dissolved ammonia and dissolved boron were chosen to demarcate the GMZ boundary because the extent of the elevated concentrations of these compounds incorporated the largest area. The use of dissolved ammonia and dissolved boron superseded the use of dissolved chloride as an indicator of leachate-derived compounds due to the other potential chloride sources (road salt, water softeners, etc.) within the vicinity of the facility.

The changes in the boundaries/extent from 1995 to 2004 were not an indication of the effectiveness of the remediation program. When comparing the differences between the 1995 and 2004 GMZ boundaries, the operational status of the Northern Unit and the amount of available data were considered. In 1995, the Northern Unit was fully operational with no closed areas and the GMZ boundaries were determined from one sampling event. Six additional years of waste disposal occurred prior to the completion of the closure activities. Final cover placement began in 1999 and was completed in July 2001. Additional closure activities were completed in 2002 with the revision of the leachate/gas extraction system. The Groundwater Impact Assessment (GIA [1995]), which evaluated the natural attenuation/degradation remediation method, assumed steady-state conditions after completion of the closure activities and estimated five to ten years for cleanup to achieve background conditions.

A re-evaluation of the GMZ was conducted in 2007 pursuant to Condition VIII.22. The re-evaluation was submitted May 1, 2007 as Illinois EPA Application Log No. 2007-181 (approved by Permit Modification No. 37). The results of the re-evaluation indicated that although a few inorganic parameters were still detected at concentrations above backgrounds, significant improvements to groundwater quality were evident as demonstrated by the decreases in individual parameter concentrations and GMZ extents. In addition, the organic constituents that prompted the remedial actions were typically not detected in groundwater downgradient of the facility during the review period. Revised GMZ boundaries were similar to those depicted in the 2004 evaluation. Although decreases in the GMZ extent and parameter concentrations were demonstrated in Illinois EPA Application Log No. 2007-181, the Illinois EPA requested further characterization of the western boundary of the GMZ.

In accordance with the September 29, 2008 addendum to Illinois EPA Application Log No. 2007-181, further characterization of the western boundary of the GMZ was submitted May 1. 2009 as Illinois EPA Application No. 2009-221 (approved by Modification No. 40). Based on the results of the GMZ investigation, groundwater quality to the west of the GMZ appeared unaffected by the Northern Unit. However, due to issues with the turbidity of the groundwater and sampling methodology, additional investigation was proposed. As a result of the issuance of Modification No. 40, Condition VIII.23 was revised requiring the installation of temporary investigation wells T1U-A, T1L-A, T2U-A, T2L-A, T3U-A, and T3L-A. In accordance with Condition VIII.23 of Modification No. 40, the results of the GMZ investigation report, submitted January 29, 2010 as Illinois EPA Application Log No. 2010-038 (approved by Permit Modification No. 50), indicated that concentrations of all organic and inorganic GMZ parameters, with the exception of dissolved ammonia, were non-detect or below the AGQS at T2U-A, T2L-A. and T3U-A. However, the investigation results indicated that dissolved ammonia concentrations west of Kilbuck Creek may be affected by background conditions and spatial variability, possibly associated with the agricultural land use of the area, and not fully represented by the Northern Unit AGQS.

Addendums 1 and 2 to Illinois EPA Application Log No. 2010-038, submitted September 16, 2010 and June 14, 2011, respectively, provided a comprehensive evaluation regarding the direction of groundwater movement in the vicinity of Northern Unit Compliance Boundary wells

G52S and G52M, including the Northern Unit GMZ temporary investigation wells. An additional evaluation was performed in response to Condition VIII.24 of Permit No. 2006-221-LF, identifying the extent of influence of construction dewatering activities in the North Expansion Unit (NEU), specifically in the vicinity of Northern Unit Compliance Boundary wells G52S and G52M and temporary investigation wells T1U-A, T1L-A, T2U-A, T2L-A, T3U-A, and T3L-A. Based on the evaluation, a northerly groundwater movement was maintained in the subject area prior to and subsequent to initiation of construction dewatering activities in the NEU due to Kilbuck Creek and the wetland mitigation area acting as a buffer against potential drawdown. As a result of consistent northerly groundwater movement, the dissolved ammonia concentrations in the groundwater west of Kilbuck Creek were determined to be affected by conditions present to the south and southeast and not the result of the Northern Unit. Further investigation for the dissolved ammonia exceedences at temporary investigation wells T2U-A, T2L-A, and T3U-A was refuted citing that dissolved ammonia sources other than the landfill are evidenced by: concentrations of dissolved ammonia upgradient to the facility waste units exceeding concentrations downgradient to the waste units during the December 2009 GMZ investigation; lack of additional indicator parameter exceedences during the GMZ investigation; and a demonstration that the Temporary GMZ Assessment Wells located west of Kilbuck Creek receive water from the south and southeast and are influenced by mixing of surface water and groundwater.

The most current reevaluation of the GMZ was conducted during 2012. Application Log No. 2012-171 was submitted to the Illinois EPA for review on May 1, 2012 and approved on October 2, 2012 as Permit Modification No. 57. The application concluded that although a few GMZ parameters are still detected at concentrations above background values, significant improvements to groundwater quality are evident as demonstrated by the decreases in individual parameter concentrations and GMZ extents. In addition, the organic constituents that prompted the remedial actions are typically not detected in groundwater downgradient of the facility. These improvements in groundwater quality demonstrate that the remedial measures are effective and appear to be functioning to correlate with the estimated timeline given in the initial GIA. No additional action was proposed as part of the 2012 evaluation.

7.2 Northern Unit

Table 6B lists all wells and parameters exhibiting a confirmed increase (as defined by Permit Condition VIII.13) during the review period (first quarter 2008 through third quarter 2012). In accordance with Permit Condition VIII.13, an exceedence is defined as any concentration that exceeds the respective AGQS/MAPC and/or any concentration of an organic parameter that exceeds the respective preceding concentration. The table accounts for only those parameters that were not monitored or evaluated as part of the GMZ.

In accordance with Condition VIII.15 of the permit, alternate source demonstrations were submitted for all confirmed exceedences listed on Table 6B. The application in which each exceedence was addressed is provided on the table for reference. With the exception of Log No. 2012-459, all of the referenced applications have been approved with the issuance of Permit Modification Nos. 46, 51, and 55. Application Log No. 2012-459 was submitted October 1, 2012 as an alternate source demonstration for the second quarter 2012 confirmed increase of tetrachloroethene at R03S. This application is currently pending Illinois EPA review.

8. CONCLUSIONS

The GIAs for both the Northern and Southern Units have been reviewed in accordance with 35 III. Adm. Code 813.303(b). It has been determined that the conditions applicable to the original assessment for the Southern Unit have not changed in such a way as to result in the violation of the groundwater standards pursuant to 35 III. Adm. Code 811.320 outside the zone of attenuation, and no monitoring well shows concentrations of constituents in groundwater greater than the groundwater quality standards that are attributable to the waste unit. It has been determined that the conditions applicable to the original assessment for the Northern Unit, Southern Unit and Southern Unit Expansion have not changed to alter the findings of that assessment.

Tables

Table 1 - Permit Modifications Since 2008 Renewal

Table 1 Permit Modifications Since 2008 Renewal

Permit	Application	Date	Date	
Mod. No.	Log No.	Submitted	Approved	Description
43	2008-018	1/11/2008	4/13/2010	Permit Renewal
44	2006-454	11/22/2006	5/3/2010	Modifications to the Gas Management and Collection Systems
45	2010-270	6/1/2010	10/27/2010	2009 Annual Revised Closure and Post-Closure Care Cost Estimate
46	2010-152	4/13/2010	1/21/2011	Alternate Source Demonstration for First Quarter 2008 Through Third Quarter 2009 Exceedences
47	2011-067	2/18/2011	6/17/2011	Construction Certification for the Leachate Forcemain Along West-Side of Landfill
48	2011-143	4/21/2011	8/9/2011	Southern Unit Final Cover Revisions
49	2011-255	6/1/2011	8/26/2011	2010 Annual Revised Closure and Post-Closure Care Cost Estimate
50	2010-038	1/29/2010	9/22/2011	GMZ Investigation Results
	2010-373	8/2/2010		Alternate Source Demonstration for First Quarter 2010 Exceedences
51	2010-490	10/12/2010	10/7/2011	Alternate Source Demonstration for Second Quarter 2010 Exceedences
31	2011-004	1/10/2011	10///2011	Alternate Source Demonstration for Third Quarter 2010 Exceedences
	2011-118	4/8/2011		Alternate Source Demonstration for Fourth Quarter 2010 Exceedences
52	2010-475	11/3/2012	1/9/2012	Landfill Gas to Energy Facility
53	2011-451	10/12/2011	1/10/2012	Alternate Source Demonstration for Second Quarter 2011 Exceedences, Abandonment of G18S/D
54	2012-040	2/3/2012	4/24/2012	Alternate Source Demonstration for Third Quarter 2011 Exceedences
55	2012-143	4/17/2012	8/3/2012	Revised Interwell AGQS Value for Oil (Hexane Soluble)
	2012-189	5/14/2012	0/3/2012	Alternate Source Demonstration for Fourth Quarter 2011 Exceedences
56	2012-133	4/13/2012	8/28/2012	Revised Interwell AGQS Value for Dissolved Chloride for the Southern Unit, G53M/S Added to GMZ Program
57	2012-171	5/1/2012	10/2/2012	Five Year GMZ Evaluation for the Northern Unit
58	2012-264	6/1/2012	10/29/2012	2011 Annual Revised Closure and Post-Closure Care Cost Estimate

Table 2A – Southern Unit Confirmed AGQS Exceedences

Table 2A Southern Unit Confirmed AGQS/MAPC Exceedences First Quarter 2008 through Third Quarter 2012

Well ID	Parameter	Units	GW List	AGQS	1stQtr08	1stQtr08re	2ndQtr08	3rdQtr08	4thQtr08	1stQtr09	2ndQtr09	2ndQtr09re	3rdQtr09	4thQtr09	1stQtr10	2ndQtr10	3rdQtr10	4thQtr10	1stQtr11	2ndQtr11	3rdQtr11	4thQtr11	1stQtr12	2ndQtr12	3rdQtr12
G13S	1,4-Dichlorobenzene	ug/l	G2	5			< 1		< 1		< 1			< 1		< 1		3.6		12		13		15	
G13D	Ammonia as N, dissolved	mg/l	G1	1.481	< 0.09		0.36	5.8	8.4	15	70		32	25	15	250	200	170	280	23	13	18	15	12	9.8
G13S	Ammonia as N, dissolved	mg/l	G1	1.481	0.33		0.22	0.45	0.51	< 0.09	0.16		0.75	0.59	1.1	0.39	1.1	1.7	11	7	6	5.6	6.3	6.7	7.7
R05S	Ammonia as N, dissolved	mg/l	G1	1.481				There									3								
G13D	Arsenic, Dissolved	ug/l	G1	3.801	1.8		9.5	13	3.8	3.8	12		6.9	9.1	< 1	43	43	19	10	2.4	< 1	2.5	1.9	3.5	3
G13S	Arsenic, Dissolved	ug/l	G1	3.801	1.6		2.3	1.6	7.6	3.9	< 1		1.2	4.5	1.8	< 1	1.8	3.1	4.6	4.1	1.4	5.2	4.7	5.7	1.5
G13S	Benzene	ug/l	G2	5			< 1		< 1		< 1			1.2	< 1	1.6		4.1		3.7	Maria Di	4.7		6.1	
G13D	Boron, Dissolved	ug/l	G1	147.619	110		130	410	340	440	1800		2700	1900	250	7100	8500	6600	5000	950	360	690	480	410	310
G13S	Boron, Dissolved	ug/l	G1	147.619	77		96	90	100	160	81	49	100	100	150	93	200	280	440	470	470	410	250	220	230
G13D	Chloride, Dissolved	mg/l	G1	348	34	Lucis	19	37	67	110	260		180	190	170	830	720	530	350	200	200	220	160	130	110
G22D	Chloride, Dissolved	mg/l	G1	348	200		57	64	150	120	210		55	400	420	430	240	320	240	280	300	300	280	260	310
G13D	Chlorobenzene	ug/l	G2	5	- FLITT		< 1		< 1		< 1			< 1	Company of the	1.7	I STATE OF	4	ALICE SITE OF	6.1		14		7.8	
G13S	Chlorobenzene	ug/l	G2	5	15 S. TAIL		< 1		< 1		2.5	< 1		4.1	1.2	5.9		24		23		29		34	3.71
G13S	Cyanide, Total	mg/l	G1	0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0094	0.0075	< 0.005	< 0.005
G13D	Lead, Dissolved	ug/l	G1	1	< 1		< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	4	7.8	1.6	< 1	< 1	< 1	< 1	< 1	< 1	< 1
G13D	Phenolics	ug/l	G2	5	< 5		8.5	< 5	< 5		18	16		< 5		49	L Lando	11		< 5		< 5		< 5	
G13D	Specific Conductance	umhos	G1	3700	1975	920	506	688	693	1667	3750		2240	1047	1437	3750	1409	3770	436	2180	1844	2890	1982	1093	1008
G13D	Sulfate, Dissolved	mg/l	G1	420	420	420	390	140	170	570	580		70	280	310	270	360	260	190	280	300	230	170	150	170
G13D	Tetrahydrofuran	ug/l	G2	7		Tana di La	< 5		< 20		110	The second		< 2.5		63		24		15		< 2	7.1.	2	14 94 44
G13D	Total Dissolved Solids	mg/l	G1	2800.31	1100		1100	1100	1200	1800	2500		1700	1800	1700	4200	3700	3100	2300	1600	1800	1400	1300	1100	1300
G13D	Zinc, Dissolved	ug/l	G1	204.21	1400	n and all all	2800	100	45	170	62	1330 52 5	34	470	< 6	1700	4800	1300	70	7	7.6	45	8.2	13	13

Table 2B - Southern Unit Confirmed Exceedences (Condition Viii.13)

Winnebago Landfill Permit Renewal Application (November 2012)

Andrews Engineering, Inc.
J/1990/90-114 (Winnebago)/DOC/2013 Renewal Application/2013 permit renewal text (fmt).doc; Applications

Table 2B Southern Unit Confirmed Exceedences First Quarter 2008 through Third Quarter 2012

Well ID	Parameter	Units	GW List	Application	AGQS	1stQtr08	1stQtr08re	2ndQtr08	3rdQtr08	4thQtr08	1stQtr09	2ndQtr09	2ndQtr09re	3rdQtr09	4thQtr09	1stQtr10	2ndQtr10	3rdQtr10	4thQtr10	1stQtr11	2ndQtr11	3rdQtr11	4thQtr11	1stQtr12	2ndQtr12	3rdQtr12
G13S	1.4-Dichlorobenzene	ug/l	G2	терпоилоп	5	101000	101011010	< 1	o, a quo	< 1		< 1	2.1100		< 1	Totali	< 1	Ordigin 10	3.6	roidini	12	ora qui i	13	10.00.10	15	
A28D	Acetone	ug/l	G2	2011-118	100	MAN COLUM	TALL 72 - 72								< 5	APP TO	< 5		5.1		< 5		11	< 5	< 5	
G13D	Ammonia as N, dissolved	mg/l	G1	A CONTRACTOR	1.481	< 0.09	900	0.36	5.8	8.4	15	70	TO THE	32	25	15	250	200	170	280	23	13	18	15	12	9.8
G13S	Ammonia as N, dissolved	mg/l	G1		1.481	0.33		0.22	0.45	0.51	< 0.09	0.16		0.75	0.59	1.1	0.39	1.1	1.7	11	7	6	5.6	6.3	6.7	7.7
R05S	Ammonia as N, dissolved	mg/l	G1	The state of the	1.481		THE LINE OF					E GUERA II			1,700 - 1		6.70 - 19	3								
G13D	Arsenic, Dissolved	ug/l	G1		3.801	1.8		9.5	13	3.8	3.8	12		6.9	9.1	< 1	43	43	19	10	2.4	< 1	2.5	1.9	3.5	3
G13S	Arsenic, Dissolved	ug/l	G1	17.00	3.801	1.6		2.3	1.6	7.6	3.9	< 1		1.2	4.5	1.8	< 1	1.8	3.1	4.6	4.1	1.4	5.2	4.7	5.7	1.5
G13S	Benzene	ug/l	G2		5			< 1		< 1		< 1		70	1.2	< 1	1.6		4.1		3.7		4.7		6.1	
G13D	Boron, Dissolved	ug/l	G1		147.619	110		130	410	340	440	1800		2700	1900	250	7100	8500	6600	5000	950	360	690	480	410	310
G13S	Boron, Dissolved	ug/l	G1		147.619	77		96	90	100	160	81		100	100	150	93	200	280	440	470	470	410	250	220	230
A28D	Carbon disulfide	ug/l	G2	2011-118	5			Carrier Inc.							< 1		< 1		3.5		< 1		< 1		< 1	
G13D	Chloride, Dissolved	mg/l	G1		348	34	Y COLUM	19	37	67	110	260		180	190	170	830	720	530	350	200	200	220	160	130	110
G22D	Chloride, Dissolved	mg/l	G1	2011-004	348	200		57	64	150	120	210	THE RESERVE	55	400	420	430	240	320	240	280	300	300	280	260	310
G13D	Chlorobenzene	ug/l	G2		5			< 1		< 1		< 1			< 1		1.7		4		6.1		14		7.8	
G13S	Chlorobenzene	ug/l	G2		5			< 1		< 1		2.5	< 1	75451610	4.1	1.2	5.9		24	1	23		29		34	
G11D	cis-1,2-Dichloroethene	ug/l	G2	2010-152	5			T 3		6.6	4.5	2.6			3.6	2.7	2.4	11.5	2.9		2		1.2		1.2	
R11S	cis-1,2-Dichloroethene	ug/l	G2	2011-118	5			3		2.8		2.8	The Mark		1.6		1.3		1.8	1.8	3		2.2		2.4	
G13S	Cyanide, Total	mg/l	G1		0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0094	0.0075	< 0.005	< 0.005
G13D	Lead, Dissolved	ug/l	G1		1	< 1		< 1	< 1	< 1	< 1	< 1	The second	< 1	< 1	< 1	4	7.8	1.6	< 1	< 1	< 1	< 1	< 1	< 1	< 1
G13D	Phenolics	ug/l	G2		5	< 5		8.5	< 5	< 5		18	16		< 5		49		11		< 5		< 5		< 5	
G13D	Specific Conductance	umhos	G1		3700	1975	920	506	688	693	1667	3750		2240	1047	1437	3750	1409	3770	436	2180	1844	2890	1982	1093	1008
G13D	Sulfate, Dissolved	mg/l	G1		420	420	420	390	140	170	570	580		70	280	310	270	360	260	190	280	300	230	170	150	170
G11D	Tetrachloroethene	ug/l	G2	2010-152	5		7	T 1		5.2	2.6	2.2			3	2.9	2.3		3.3		2.6		1.8		2.9	
R11S	Tetrachloroethene	ug/l	G2	2012-459	5			< 1		< 1		< 1			< 1		< 1		1		1.1	1	1	DE SU SUL	1.5	1.2
G13D	Tetrahydrofuran	ug/l	G2		7			< 5		< 20		110		F. 5 1 7	< 2.5		63		24		15		< 2		2	
G13D	Total Dissolved Solids	mg/l	G1		2800.31	1100		1100	1100	1200	1800	2500	TO PER	1700	1800	1700	4200	3700	3100	2300	1600	1800	1400	1300	1100	1300
G11D	Trichloroethene	ug/l	G2	2010-152	10			T< 1		3.1	2	1.5		FERMI	1.8	1.8	1.4		1.8		1.3		< 1		1.3	
R11S	Trichloroethene	ug/l	G2	2011-451	10			< 1		< 1	THE TABLE	< 1	AL PARTERS	2	< 1		< 1		< 1		1.1	1.3	1	MALE OF	1.4	
G13D	Zinc, Dissolved	ug/l	G1	We have	204.21	1400		2800	100	45	170	62	The state of the s	34	470	< 6	1700	4800	1300	70	7	7.6	45	8.2	13	13

Table 3 - Southern Unit Leachate Data

Well ID	Parameter	Units	List	1stQtr08	2	ndQtr08	4th	Qtr08	2ndQtr09	4thQtr09	2ndQtr10	4thQtr10	2ndQtr11	7 2	2ndQtr12
L301	Alkalinity, Bicarbonate as CaCO3	mg/L	L1	i i		5200		5000		5600		2400		\top	
L302	Alkalinity, Bicarbonate as CaCO3	mg/L	L1			3700			3000		2300		5000	\top	5400
L301	Aluminum, total	ug/L	L1	ĺ		0.11		0.82		0.034		0.005		\top	
L302	Aluminum, total	ug/L	L1			0.086			0.13		0.0056		0.055	\top	0.24
L301	Ammonia as N, total	mg/L	L1	480		820		1100		1000		260		_	
L302	Ammonia as N, total	mg/L	L1	480		510			400		110	i	610	\top	
L301	Antimony, total	ug/L	L1		<	0.006	<	0.003		< 0.003		0.0098		\top	
L302	Antimony, total	ug/L	L1			0.032			0.01		0.0042		< 0.003	\top	0.0055
L301	Arsenic, total	ug/L	L1	0.065		0.054		0.055		0.057		0.058		+-	
L302	Arsenic, total	ug/L	L1	0.067		0.054	 		0.04		0.026		0.058	+	0.1
L301	Barium, total	ug/L	L1	0.78		0.26		0.27		0.34		0.46		+	
L302	Barium, total	ug/L	L1	0.47		0.09	†		0.41		0.2	1	0.32	+	0.49
L301	Beryllium, total	ug/L	L1	• • • • • • • • • • • • • • • • • • • •	<	0.002	<	0.001	• • • • • • • • • • • • • • • • • • • •	< 0.001	5.2	< 0.001	0.02	+	
L302	Beryllium, total	ug/L	L1		<	0.002		0.001	< 0.001		< 0.001	0.00	< 0.001	 -	0.001
L301	Biochemical Oxygen Demand	mg/L	L1	200		240		130		72	0.00	68		+	
L302	Biochemical Oxygen Demand	mg/L		190	 	1100	_		100	 	H 20	-	73	+	120
L301	Boron, total	ug/L	L1	100		7.3	 	6.6		7.8	111 20	4.7	 	+	
L302	Boron, total	ug/L	L1			0.96		0.0	4.4	 	3.2	 	7.8	+	7,3
L301	Cadmium, total	ug/L	L1	< 0.001	<	0.002	-	0.001		< 0.001	1	< 0.001	7.0	+	
L302	Cadmium, total	ug/L	L1	< 0.001	<u> </u>	0.002		0.001	< 0.001	0.001	< 0.001	1 0.001	< 0.001	 	0.001
L301	Calcium, total	mg/L	L1	0.007		120	 	87	0.001	110	0.001	300	0.001	+-	0.001
L302	Calcium, total	mg/L	L1	· ·		17			220	110	260	300	130	+	99
L301	Chemical Oxygen Demand	mg/L	L1	1200		1300	1	1000	220	1600	200	700	130	+	
L302	Chemical Oxygen Demand	mg/L	L1	6100		7400	1	1000	810	1000	430	700	1200	+-	1400
L301	Chloride, total	mg/L	L1	0100		1600		1500	010	1900	430	960	1200	+	1400
L302	Chloride, total		L1		_	920	<u> </u>	1500	720	1900	570	900	6.4	+	1400
L302		mg/L	L1	0.054	┝	0.098		0.093	120	0.17	570	0.062	0.4	+	1400
L302	Chromium, total	ug/L	L1	0.034	⊢	0.098	-	0.093	0.037	0.17	0.035	0.002	0.11	+-	0.12
L302	Chromium, total Cobalt, total	ug/L	L1	0.033	\vdash	0.019		0.025	0.037	0.034	0.035	0.014	0.11	┿	0.12
L301	Cobalt, total	ug/L	L1		├	0.027	 	0.025	0.0096	0.034	0.011	0.014	0.027	+	0.021
L302	Copper, total	ug/L	L1	0.027	├─	0.0032	-	0.099	0.0090	0.033	0.011	0.03	0.027	+	0.021
L302		ug/L	L1	0.027	<	0.036	 	0.099	0.015	0.033	0.023	0.03	0.038	+	0.034
L302	Copper, total	ug/L	L1	< 0.015	\ <		<	0.005	0.015	< 0.005	0.023	< 0.005	0.036	+	0.034
	Cyanide, total	mg/L			_	0.005	`	0.005	0.005	< 0.005		< 0.005	< 0.005	-	0.005
L302	Cyanide, total	mg/L	L1	< 0.005	<	0.005			< 0.005	10	< 0.005	1000	< 0.005	┿	0.005
L301	Fecal Coliform	/100mL	L1	700	<	10		20	- 20	< 10	400	1300	 	+-	
L302	Fecal Coliform	/100mL	L1	300	<u> </u>	10		2.50	36	-	120		< 10	<	10
L301	Fluoride, total	mg/L	L1	0.31	_	0.45	ļ	0.53		0.4		0.38	1 2	+	
L302	Fluoride, total	mg/L	L1	0.31	<	0.25	-		< 0.25	 	< 0.25		< 2.5	<u> </u>	25
L301	Iron, total	ug/L	L1	4.7	<u> </u>	1.4	ļ	2.9		2.6	ļ	8.2	1	+-	
L302	Iron, total	ug/L	L1	2.5	<u> </u>	3.3	<u> </u>		8.8		19		2.1	+-	3.5
L301	Lead, total	ug/L	L1	0.0019	<u> </u>	0.0022		0.012		0.0016	1	0.0042	_	—	
L302	Lead, total	ug/L	L1	0.0011	<	0.002	ļ		0.0021	<u> </u>	0.012	<u> </u>	0.001	_<	0.001
L301	Magnesium, total	mg/L	L1		<u> </u>	250	ļ	230		230		230	1	4	
L302	Magnesium, total	mg/L	L1			35			200	 	170		230	—	150
L301	Manganese, total	ug/L	L1	0.16	<u> </u>	0.18		0.13		0.097		0.61	1	+	
L302	Manganese, total	ug/L	L1	0.096	ļ	0.046	ļ		0.37	ļ	0.65		0.23	丄	0.2
L301	Mercury, total	ug/L	L1	< 0.0002	<	0.0004	<	0.0002		< 0.0002		< 0.0002	1	ᆚ_	
L302	Mercury, total	ug/L	L1	< 0.0002	<	0.0004			< 0.0002		< 0.0002		0.00032	<	0.0002
L301	Nickel, total	ug/L	L1	0.1	L	0.2		0.18		0.25		0.095			
L302	Nickel, total	ug/L	L1	0.058	L_	0.034			0.08	<u>1 </u>	0.065		0.18		0.13

Well ID	Parameter	Units	List	1stQtr08	2	ndQtr08	4th	Qtr08	2ne	dQtr09	4thQtr09	2n	dQtr10	4ti	Qtr10	2n	dQtr11	2r	ndQtr12
L301	Nitrate as N, total	mg/L	L1		<	0.02		0.9			< 0.5	 		<	0.2	 			
L302	Nitrate as N, total	mg/L	L1		<	0.02			<	0.2		-	0.2			<h< td=""><td>0.2</td><td>╆</td><td>0.37</td></h<>	0.2	╆	0.37
L301	pH	S.u.	L1	7.46				7.17			7.32	1			7.06	 	7.16	\vdash	
L302	pH	s.u.	L1	6.96	-						1.02	+	7.24	-	1.00	 	7.24	\vdash	8.95
L301	Phosphorus, total	mg/L		2.9	\vdash	5.1		4.2			6.2	+-	,,		2.4	╁	7.2-4	\vdash	-0.50
L302	Phosphorus, total	mg/L	L1	1.7		0.47		7.2	-	1.8	0.2	+	1.2		2.7	\vdash	5.5	\vdash	4.4
L301	Potassium, total	mg/L	L1	1.7		480		460	 		540	+			190	-	3.5	\vdash	
L302	Potassium, total	mg/L	L1	1		74		700		210	340	+	110		130	 	450	\vdash	440
L301	Selenium, total	ug/L		1		0.027		0.026		210	0.07	 	110	-	0.022	 	430	┼──	440
L302	Selenium, total	ug/L	L1			0.027		0.020		0.01	0.07	+	0.011	-	0.022	1	0.068	├	0.095
L302	Silver, total	ug/L	L1	< 0.005		0.0046	<	0.005		0.01	< 0.005	+	0.011		0.005	-	0.000	\vdash	0.095
				< 0.005	-			0.005	<	0.005	V 0.005	-	0.005	<u>├</u>	0.005	<	0.005	-	0.005
L302 L301	Silver, total	ug/L mg/L	L1 L1	< 0.005	<	0.01 1400	-	1200	<u> </u>	0.005	1600	+`-	0.005	-	810	<u> </u>	0.005	۴	0.005
	Sodium, total		L1			1400	-	1200		570	1600	+	420	-	810	-	4200	┯	4200
L302	Sodium, total	mg/L		0000	-	140				5/0	40550	+	420	├	7000		1300	₩	1300
L301	Specific Conductance	umhos/cm	L1	8320							13550	-			7380	_	8380	—	
L302	Specific Conductance	umhos/cm	L1	9010							10	 	5350			<u> </u>	10560	—	4440
L301	Sulfate, total	mg/L	L1		-	4.9		6		450	12				530	_		—	
L302	Sulfate, total	mg/L	L1			5.4				150			600	ļ		-	25		13
L301	Thallium, total	ug/L	L1		<	0.002	<	0.001			0.004	_		<	0.001	├		₩	
L302	Thallium, total	ug/L	L1		<	0.002	<u> </u>		<	0.001		<	0.001			<	0.001	<	0.001
L301	Tin, total	ug/L	L1		<	0.06	<	0.06			< 60			<	60	<u> </u>		╙	
L302	Tin, total	ug/L	L1		<	0.06	<u> </u>		<	0.06		<	0.06	<u> </u>		<	0.06	<	0.06
L301	Total Dissolved Solids	mg/L	L1	3900		6000		5300		_	6400				4600			╙	
L302	Total Dissolved Solids	mg/L	L1	4300		4600				3300			3200			<u> </u>	5300		5300
L301	Total Organic Carbon	mg/L	Ļ1			600	ļ	290		_	350				170			\perp	
L302	Total Organic Carbon	mg/L	L1			1600				200			110				370		390
L301	Total Suspended Solids	mg/L	L1	48		5.6		69		_	4.8				240			┖	
L302	Total Suspended Solids	mg/L	L1	12		6.4			_	30			120				4	\perp	16
L301	Vanadium, total	ug/L	L1			0.078					0.071				0.032				
L302	Vanadium, total	ug/L	L1			0.012				0.024			0.018				0.049		0.065
L301	Zinc, total	ug/L	L1	0.13		0.042		0.074			0.064				0.084				
L302	Zinc, total	ug/L	L1	0.058		0.021				0.078			0.096				0.027		0.019
L301	1,1,1,2-Tetrachloroethane	ug/L	L1		<	1					< 1			<	1				-
L302	1,1,1,2-Tetrachloroethane	ug/L	L1		<	1					Î	<	10			<	50	<	5
L301	1,1,1-Trichloroethane	ug/L	L1		<	1					< 1			<	1			\vdash	
L302	1,1,1-Trichloroethane	ug/L	L1		<	1						<	10			<	50	<	5
L301	1,1,2,2-Tetrachloroethane	ug/L	L1		<	1					< 1			<	1				
L302	1.1.2.2-Tetrachloroethane	ug/L	L1		<	1					1	<	10			-	50	<	5
L301	1,1,2-Trichloroethane	ug/L	L1		<	1					< 1	T		<	1	 		\vdash	
L302	1,1,2-Trichloroethane	ug/L	L1			8		•		_	· · · · · ·	<	10			<	50	<	5
L301	1,1-Dichlorgethane	ug/L	L1		<	1			t		< 1			<	1	t		\vdash	
L302	1,1-Dichloroethane	ug/L	L1		<u> </u>	1	t			_	 	<	10	<u> </u>		<	50	<	5
L301	1.1-Dichloroethene	ug/L	L1	1	<u> </u>	1			 	_	< 1	+		<	1	 		Ť	
L302	1,1-Dichloroethene	ug/L	L1		<u> </u>	1	 		 	-	 	<	10		•	<	50	<	5
L301	1,1-Dichloropropene	ug/L	L1		~	1			\vdash	_	< 1	 		<	1	Ť		Ť	
L302	1,1-Dichloropropene	ug/L	L1	 	~	1	 		 	_	 	<	10	⊢`-	<u> </u>	<	50		
L302	1,2,3-Trichlorobenzene	ug/L	L1	 	-	1	 		-	_	< 1	+		<	1	├	50	È	
L301	1,2,3-Trichlorobenzene		L1	-	<	1	-			_	-	<	10	<u> </u>	<u>'</u>	<	50	-	5
L302 L301		ug/L	L1	-	<	1	 				< 1	+	10	<	1	 `	50	 `	<u> </u>
	1,2,3-Trichloropropane	ug/L			<		<u> </u>		_		<u> </u>	<	10	`	1	<	50	_	
L302	1,2,3-Trichloropropane	ug/L	L1	L	_ <	1	l		L .	5	<u></u>	<u> </u>	10	1		L`	50	<u></u>	5

Well ID	Parameter	Units	List	1stQtr08	20	ndQtr08	4th	Qtr08	2n	dQtr09	4thC	Qtr09	2 n	dQtr10	/th	Qtr10	1 2n	dQtr11	T 2n	ndQtr12
L301	1,2,4-Trichlorobenzene	ug/L	L1	13(Q1100	<	4	<	100	211	uQ:i03	<	100	"	dQti 10	<	1	211	uquii		uQii 12
L302	1,2,4-Trichlorobenzene	ug/L	L1		-	'	<u> </u>	100	<	5	 ` 	100	<	10	<u> </u>		<	50	-	5
L302	1,2,4-Trimethylbenzene		L1		 `	44			<u> </u>		-	19	 `	10		12	 `		 `	
		ug/L	L1		-	57				10	-	19	-	40		12	-	50	-	
L302	1,2,4-Trimethylbenzene	ug/L			<u> </u>					19			<	10			<	50	┼—	14
L301	1,2-Dibromo-3-chloropropane	ug/L	L1		<	1			<u> </u>		<	1	-	40	<	1	-	40	+	
L302	1,2-Dibromo-3-chloropropane	ug/L	L1		<	1			<	5			<	10	ļ		<	10	<	1
L301	1,2-Dibromoethane	ug/L	L1		<	1					<		-		<	1	<u> </u>		+-	
L302	1,2-Dibromoethane	ug/L	L1		<	1			<	5	-		<	10		1	<	10	<u> </u>	1
L301	1,2-Dichlorobenzene	ug/L	L1	-	<	1			<u> </u>		<	1	<u> </u>		<	1	<u> </u>		₩-	
L302	1,2-Dichlorobenzene	ug/L	L1	-	<	1			<	5	-		<	10			<	50	<	5
L301	1,2-Dichloroethane	ug/L	L1		<	1			<u> </u>		<	1			<	1	├		₩	
L302	1,2-Dichloroethane	ug/L	L1		-	29			<	5	ļ		<	10			<	50	<	5
L301	1,2-Dichloropropane	ug/L	L1		<	11			<u> </u>		<	1	<u> </u>		<	1			↓	
L302	1,2-Dichloropropane	ug/L	L1			4			<	5			<	10	ļ		<	50	<	5
L301	1,3,5-Trimethylbenzene	ug/L	L1			10						5.3				5.1	ļ		Ь_	
L302	1,3,5-Trimethylbenzene	ug/L	L1			17				7			<	10			<	50	<	5
L301	1,3-Dichlorobenzene	ug/L	L1			17					<	1			<	1	<u> </u>		<u> </u>	
L302	1,3-Dichtorobenzene	ug/L	L1			33			< .	5		_	<	10			<	50	<	5
L301	1,3-Dichloropropane	ug/L	L1		<	1					<	_1			<	1			1	
L302	1,3-Dichloropropane	ug/L	L1		<	1			<	5			<	10			<	50	<	5
L301	1,3-Dichloropropene	ug/L	L1		<	2					<	2			<	2				
L302	1,3-Dichloropropene	ug/L	L1		<	2			<	10			<	20			<	50	<	2
L301	1,4-Dichlorobenzene	ug/L	L1			16						7.7				11	L	_		
L302	1,4-Dichlorobenzene	ug/L	L1			31				14			<	10			<	50		6.8
L301	1-Propanol	ug/L	L1		<	200000				•	<	1000	1		<	1000				
L302	1-Propanol	ug/L	L1			240000			<	5000			<	10000			<	10000		2700
L301	2,2-Dichloropropane	ug/L	L1	l	<	1					<	1			<	1				
L302	2,2-Dichloropropane	ug/L	L1		<	1			<	5			<	10			<	50	<	5
L301	2,4,6-Trichlorophenol	ug/L	L1		<	10	<	100			<	100			<	100				
L302	2,4,6-Trichlorophenol	ug/L	L1		<	10			<	100			<	100			<	500	<	500
L301	2,4-D	ug/L	L1		<	1	~	1			<	0.1			~	1			\top	
L302	2,4-D	ug/L	Ļ1		<	1			T<	0.1			<	0.1				3.3	<	1
L301	2,4-Dichlorophenol	ug/L	L1		<	10	<	100			<	100			<	100			1	
L302	2,4-Dichlorophenol	ug/L	L1		<	10			<	100			<	100			<	100	<	100
L301	2,4-Dimethylphenol	ug/L	L1		<	10	<	100			<	100			<	100			1	
	2,4-Dimethylphenol	ug/L	L1		~	10			<	100			<	100			<	100	<	100
L301	2,4-Dinitrophenol	ug/L	l.1		<	50	<	500			<	500			Q.<	500			1	
L302	2,4-Dinitrophenol	ug/L	L1		<	50			<	500			<	500			<	500		500
L301	2,4-Dinitrotoluene	ug/L	L1	†	<u> </u>	10	<	100	-		<	100	Ė		<	100	 		+	
L302	2.4-Dinitrotoluene	ug/L	L1		-	10	<u> </u>	,,,,	<	100	<u> </u>		<	100	<u> </u>	100	<	100	╁	100
L302	2,6-Dinitrotoluene	ug/L	L1	 	-	10	<	100	Ė	.50	<	100	† -	100	<	100	i	,50	l'	100
L302	2.6-Dinitrotoluene	ug/L	L1	 	-	10		100	~	100	 `	100	<	100	 ` 	100	<	100	 -	100
L302	2-Butanone	ug/L ug/L	L1		 `-	3600			 `	100	 	44	<u> </u>	100	<	5	├	100	⇈	100
L301	2-Butanone 2-Butanone		L1		\vdash	24000			├─	46	 		<	50	 `	<u> </u>	<	100	+	2100
		ug/L	L1		 	24000				40	<	10	<u> </u>	50	<	10	È	100	\vdash	2100
L301	2-Chloroethyl vinyl ether	ug/L			-				 		 ` 	10	_	100	<u> </u>	10	 	E0.	+	
L302	2-Chloroethyl vinyl ether	ug/L	L1		 _	10		400	├─-		-	400	<	100	<u> </u>	400	<	50	╀-	5
L301	2-Chloronaphthalene	ug/L	L1		<	10	<	100	 	100	<	100	 	400	<	100	 -	400	+_	400
L302	2-Chloronaphthalene	ug/L	L1		<	10		400	<	100	ļ <u>. </u>	400	<	100	<u> </u>	460	<	100	<	100
L301	2-Chlorophenol	ug/L	L1		<	10	<	100	<u> </u>	400	<	100		400	<	100	<u> </u>	400	 	-100
L302	2-Chlorophenol	ug/L	_ L1		<	10			<	100			<	100	L		<	100	<	100

Well (D	Parameter	Units	List	1stQtr08	21	ndQtr08	41	hQtr08	2n	dQtr09		Qtr09	2n	dQtr10	4th	Qtr10	20	dQtr11	T 2r	ndQtr12
L301	2-Chlorotoluene	ug/L	L1	1310(1100	<	1	70	ii Qii OO		uquos	<	1	"	uqu io	<	1	 "	uquii	 	Id Gill 12
L302	2-Chlorotoluene	ug/L	L1	-	<				<	5	 ` 	•	<	10	<u> </u>		~	50	<	5
L301	2-Hexanone	ug/L	L1	_	H	160			Ė		<	5	H		<	5	<u> </u>		÷	<u> </u>
L302	2-Hexanone	ug/L	L1		-	360				25	 `		<	50	<u> </u>		<	100	\vdash	12
L302	2-Nitrophenol	ug/L	L1		<	10	<	100	 `	20	<	100	<u> </u>		<	100	 	100	\vdash	
L302	2-Nitrophenol	— -	L1		~	10	├ `	100	<	100	 ` 	100	<	100	 `	100		100	<	100
L302	2-Propanol	ug/L ug/L	L1		<u> </u>	10			 `	100	<	1000	<u> </u>	100	<	1000	 	100	├	100
	<u>_</u>				-				-		 ` -	1000	-	40000	 `	1000	-	10000	+	0000
L302	2-Propanol	ug/L	L1		<	20	_	200	_		<u> </u>		<	10000	 	200	 `	10000	\vdash	8000
L301	3,3'-Dichlorobenzidine	ug/L	L1		-	20	<	200	<u> </u>	200	<	200	1		<	200	1		₩	
L302	3,3'-Dichlorobenzidine	ug/L	L1		<	20			<_	200	.		<	200	-		<	200	<	200_
L301	4,4'-DDD	ug/L	L1		<	1	<	1	_		<	1			<	1	<u> </u>		┼—	
L302	4,4'-DDD	ug/L	L1		<	1			<	11			<	1	1		<	1	<	1
L301	4,4'-DDE	ug/L	L1		<	1	<	1			<	1			<	1			↓	
L302	4,4'-DDE	ug/L	L1		<	1			<	1			<	1	ļ		<	1	<u> </u>	1
L301	4,4'-DDT	ug/L	L1		<u> </u>	1	<	1			<	1	ļ .		<	1			↓_	
L302	4,4'-DDT	ug/L	L1		<	1			V<	1	<u> </u>		\ <u> </u>	11			<	1	<u> < </u>	1
L301	4,6-Dinitro-2-methylphenol	ug/L	L1		<	50	<	500			<	500	<u> </u>		Q,<	500			$oldsymbol{oldsymbol{oldsymbol{eta}}}$	
L302	4,6-Dinitro-2-methylphenol	ug/L	L1		<	50			<	500			<	500			<	500	<	500
L301	4-Bromophenyl-phenylether	ug/L	L1		<	10	<u> </u>	100			<	100	<u> </u>		<	100				
L302	4-Bromophenyl-phenylether	ug/L	L1		<	10			<	100			<	100			<	100	<	100
L301	4-Chlorophenyl-phenyl Ether	ug/L	L1		<	10	<	100			<	100	1		<	100				
L302	4-Chlorophenyl-phenyl Ether	ug/L	L1		<	10			<	100			<	100			<	100	<	100_
L301	4-Chlorotoluene	ug/L	L1		<	1					<	1			<	1				
L302	4-Chlorotoluene	ug/L	L1		<	1			<	5			<	10			<	50	<	5
L301	4-Methyl-2-pentanone	ug/L	L1		<	1000					<	5	L		<	5				
L302	4-Methyl-2-pentanone	ug/L	L1			2400			<	25			<	50		_	<	100		70
L301	4-Methylphenol	ug/L	L1			12	· ·	100			<	100			<	100				
L302	4-Methylphenol	ug/L	L1			370			<	100			<	100			<	100		330
L301	4-Nitrophenol	ug/L	L1		<	10	<	100			<	100			Q,<	100				
L302	4-Nitrophenol	ug/L	L1		<	10			<	100			<	100			<	500	<	500
L301	Acenaphthene	ug/L	L1		<	10	<	100			<	100			<	100				
L302	Acenaphthene	ug/L	L1		<	10			<	100	1		<	100			<	100	<	100
L301	Acetone	ug/L	L1			7600						18			<	10			T	-
L302	Acetone	ug/L	L1			40000				150			<	100			<	100	\top	3100
L301	Alachlor	ug/L	L1		<	4	<u> </u>	4			<	0.4			<	4	i –		\top	-
L302	Alachlor	ug/L	Ł1		<	4			<	0.4			-	0.4			<	4	 	4
L301	Aldicarb	ug/L	L1		<	4	<	4			†	2.9			<	4		•	 	-
L302	Aldicarb	ug/L	L1		<	4			<	0.4	1		7	0.4		<u>-</u>	<	2	 -	2
L301	Aldrin	ug/L	L1		<	0.5	<	0.5			<	0.5	╁	<u> </u>	<	0.5	 		\vdash	-
L302	Aldrin	ug/L	L1		-	0.5		0.0	<	0.5	 `	0.5	<	0.5	 		<	0.5	-	0.5
L301	alpha-BHC	ug/L	L1		<	0.5	<	0.5			<	0.5	l`	0.5	<	0.5		0.0	+	0.5
L301	alpha-BHC	ug/L	L1		~	0.5		0.5	<	0.5	+-	0.5		0.5	 `	0.5	<	0.5	-	0.5
L302	Anthracene	ug/L ug/L	L1		~	10	<	100	 `	0.0	<	100	 `	0,5	<	100	 `	0.5	⊬	0.3
L301	Anthracene	ug/L ug/L	L1		\ <	10		100	<	100	<u>├</u>	100	<	100	 `	100	<	100	<	100
L302	Atrazine	ug/L ug/L	L1		<	2	<	2	├`	100	<	0.2	+	100	C<	2	È	100	₩	100
			L1		· ·	2	`		<	0.2	-	0.2	<	0.3	 ``		<	2	-	
L302	Atrazine	ug/L			È				<u> </u>	U.2	1	4.2	<u> </u>	0.2	<u> </u>	E 2	 `-		忙	
L301	Benzene	ug/L	L1			14 36					-	4.3	_	-10	<u> </u>	5.3	<u> </u>	50	\vdash	
L302	Benzene Benzene	ug/L	L1					100	<u> </u>	8		100	<	10	-	100	<	50	\vdash	5.9
L301	Benzo(a)anthracene	ug/L	L1		<	10	. <	100	<u> </u>	400	<	100	 _	400	<	100	 	400	+	
L302	Benzo(a)anthracene	ug/L	L1		<	10			<	100	<u> </u>		<	100	<u> </u>		<	100	<u> </u>	100

Winnebago Landfill Permit Renewal Application

Well ID	Parameter	Units	List	1stQtr08	2r	dQtr08	4th	hQtr08	2n	dQtr09	4thQti	r09	2n	dQtr10	4tl	Qtr10	21	ndQtr11	2r	ndQtr12
L301	Benzo(a)pyrene	ug/L	L1		<	10	· <	100				100			<	100			T	
L302	Benzo(a)pyrene	ug/L	L1		<	10			<	100			<	100			<	100	<	100
L301	Benzo(b)fluoranthene	ug/L	L1		<	10	<	100	 		<	100			<	100			T	
L302	Benzo(b)fluoranthene	ug/L	L1		<	10			<	100			<	100			<	100	<	100
L301	Benzo(g,h,i)perylene	ug/L	L1		<	10	<	100			< -	100			<	100			 	
L302	Benzo(g,h,i)perylene	ug/L	L1		<	10			<	100			<	100			<	100	<	100
L301	Benzo(k)fluoranthene	ug/L	L1		<	10	<	100			<	100			<	100			T	
L302	Benzo(k)fluoranthene	ug/L	L1		<	10			<	100			<	100			~	100	<	100
L301	beta-BHC	ug/L	L1		<	0.5	<	0.5			<	0.5			<	0.5			 	
L302	beta-BHC	ug/L	L1		<	0.5			-	0.5		0.0	<	0.5		0.0	~	0.5	 -	0.5
L301	bis(2-Chloroethoxy)methane	ug/L	£1		<	10	<	100			<	100		0.0	<	100		0.0		
L302	bis(2-Chloroethoxy)methane	ug/L	L1	1	<	10		,,,,,	-	100			<u> </u>	100		100	<	100	 	100
L301	bis(2-Chloroethyl) Ether	ug/L	L1		<	10	<	100		100	<	100		100		100	Ė	100	╁╌╴	
L302	bis(2-Chloroethyl) Ether	ug/L	L1		<	10			<	100		100	<	100	<u> </u>	100	<	100	<	100
L301	bis(2-Chloroisopropyl)Ether	ug/L	L1		-	10	<	100	<u> </u>	100	<	100	_		<	100	H	700	<u> </u>	-100
L302	bis(2-Chloroisopropyl)Ether	ug/L	L1		<	10	<u> </u>	100	<	100		100	<	100	<u> </u>	100	<	100	<	100
L301	bis(2-Ethylhexyl)phthalate	ug/L	L1		<	10	<	100		100	<	100		100	<	100	H	100	÷	100
L302	bis(2-Ethylhexyl)phthalate	ug/L	L1		<	10	<u> </u>	100	<	100	<u> </u>	100	<	100	- `	100	<	100	<	100
L301	bis(Chloromethyl) ether	ug/L	L1		<	10000			-	-100	< 10	0000	_	100	<	10000	Ì	100	÷	100
L302	bis(Chloromethyl) ether	ug/L	L1		<	10000			<u> </u>	10000	, ,	0000	<	100000	<u> </u>	10000	<	100000	<	200000
L301	Bromobenzene	ug/L	L1		<	1	<u> </u>	/	Ť	10000	<	1	_	100000	<	1	È	100000		200000
L302	Bromobenzene	ug/L	L1		<	1			<	5	-	<u> </u>		10		<u>'</u>	<	50	<	5
L301	Bromochloromethane	ug/L	L1		-	<u>'</u>	_		<u> </u>		<	1	_	10	<	1	<u> </u>	30	÷	
L302	Bromochloromethane	ug/L	L1	 	<	1				5			<	10			<	50	-	5
L302	Bromodichloromethane	ug/L	L1		~	1			 `		<	1	<u> </u>	10	<	1	<u> </u>		+	
L302	Bromodichloromethane	ug/L	L1		<	1			<	5		•	<	10	- `		<	50	<	5
L301	Bromoform	ug/L	L1		~	1			 `		<	1	<u> </u>	10	<	1	È	- 30	\vdash	
L302	Bromoform	ug/L	L1		<	1			<	5		'	<	10	<u> </u>	<u>'</u>	<	50	<	5
L301	Bromomethane	ug/L	L1		<	2			 `		~	2	<u> </u>	10	<	2	<u> </u>	- 30	÷	
L302	Bromomethane	ug/L	L1	<u> </u>	~	2			<	10		-	<	20			<	50	<	5
L301	Butylbenzylphthalate	ug/L	L1	l	~	10	<	100	 	10	<	100	_	20	< "	100	È	30	÷	
L302	Butylbenzylphthalate	ug/L	L1		<	10		100	<	100	<u> </u>	100	<	100		100	<	100	<	100
L302	Carbofuran	ug/L	L1		<	15	<	15	 `	100	<	1.5	`	100	<	15	È	100	₽	100
L301	Carbofuran	ug/L	L1			15	_	13	<	1.5	<u> </u>	1.5	<	1.5	<u> </u>	19	_	2	<	2
L302	Carbon Disulfide	ug/L	L1		~	1			 `	1.5	<	1	_	1.5		21	 `		È	
L301	Carbon Disulfide	ug/L	L1		~	<u>'</u>				5	<u> </u>	-	<	10		21	<	50	<	5
L302		ug/L	L1			_ <u></u>			 	<u> </u>	<	1	<u> </u>	10	<	1	H	50	₽	
L302	Carbon Tetrachloride Carbon Tetrachloride	ug/L	L1			<u>'</u>			<	5		١	<	10	⊢`		<	50	<	5
			L1	-	-	5	<	5	<u> </u>	<u> </u>	<	5		10	<	5	├ `	30	÷	
L301	Chlordane	ug/L	L1		<	5				5	<u> </u>	3	<	5	<u> </u>	5	<	- 5	 	5
L302	Chlordane	ug/L			 `	1			<u> </u>	5	<	1	_	3	<u> </u>		 	5	 `	_ 5
L301	Chlorobenzene	ug/L	L1							-	`	1		40	<	1	_		١.	
L302	Chlorobenzene	ug/L	L1		_	1			<	5			<	10	<u> </u>		<	50	<	5
L301	Chloroethane	ug/L	L1	 	<	2			<u> </u>	40	<	2			<	2	 - -		<u> </u>	
L302	Chloroethane	ug/L	L1		<	2			<	10			<	20			<	50	<	5
L301	Chloroform	ug/L	L1		<	1			!		<	1		46	<	11	_		├	
L302	Chloroform	ug/L	L1		<	1			<	5			<	10			<	50	<	5
L301	Chloromethane	ug/L	L1		<	2					<	2			<	2			 	
L302	Chloromethane	ug/L	L1		<	2			<	10			<	20			<	50	<u> < </u>	5
L301	Chrysene	ug/L	L1		<	10	<	100			< '	100			<	100			ļ	
L302	Chrysene	ug/L	L1		<	10			<	100			<	100	L		<	100	<	100

Table 3

Well ID	Parameter	Units	List	1stQtr08	Žr	dQtr08	4th	Qtr08	2n	dQtr09	4th	Qtr09	2ne	dQtr10	4th	Qtr10	2n	dQtr11	T 2r	ndQtr12
L301	cis-1,2-Dichloroethene	ug/L	L1			7					<	1			<	1			+	
L302	cis-1,2-Dichloroethene	ug/L	L1			27	 -		<	5	Ì		<	10		<u> </u>	<	200	<	20
L301	delta-BHC	ug/L	L1		<	0.5	<	0.5	<u> </u>		<	0.5		-10	<	0.5			+	
L302	delta-BHC	ug/L	L1	·	<	0.5		0.0	<	0.5	1	0.0	<	0.5		<u> </u>	<	0.5	<	0.5
L301	Dibenzo(a,h)anthracene	ug/L	L1		~	10	<	100	Ť	0.5	<	100	Ť	0.5	<	100	<u> </u>		+	
L302	Dibenzo(a,h)anthracene	ug/L	L1	 	<	10	<u> </u>	100	<	100	l	100	<	100	<u> </u>	100	<	100	<	100
L301	Dibromochloromethane	ug/L	L1		<	1	1		 `	100	<	1	<u> </u>	100	· -	1	 `	100	╀	
L302	Dibromochloromethane	ug/L	L1			1	 		<	5	<u> </u>		<	10	<u> </u>	'	<	50	<	5
L302		 ~	L1		~	1	-		 `		<	1	 `	10	<	1	<u> </u>	30	┼	
L301	Dibromomethane	ug/L	L1		<	1	1		<	5	 `-		<	10	<u> </u>		<	50	<	5
	Dibromomethane	ug/L			-		1		<u> </u>	3	<		<u> </u>	10	<		<u> </u>	50	├	
L301	Dichlorodifluoromethane	ug/L	L1		-		1			- 10	`	2	-		\ \	2	.		+-	
L302	Dichlorodifluoromethane	ug/L	L1		<_	2	<u> </u>		<	10	ļ		<	20			<	50	<	5
L301	Dieldrin	ug/L	L1		<	1	<	1			<	1			<	1	-		₩	
L302	Dieldrin	ug/L	L1		<	1	ļ		<	1	ļ		<	1	<u> </u>		<	1	<	1
L301	Diethylphthalate	ug/L	L1		<	10	<	100			<	100			<	100	<u> </u>		┿	
L302	Diethylphthalate	ug/L	L1		<	10	<u> </u>		<	100	ļ		<	100			<	100	<	100
L301	Dimethylphthalate	ug/L	L1		<	10	<	100			<	100			<	100			┷	
L302	Dimethylphthalate	ug/L	L1		<	10			<	100	ļ		<	100			<	100	<	100
L301	Di-n-butylphthalate	ug/L	L1		<	10	<	100			<	100			<	100			\bot	
L302	Di-n-butylphthalate	ug/L	L1		. <	10			<	100			<	100			<	100	<	100
L301	Di-n-octylphthalate	ug/L	L1		<	10	<	100			<	100			<	100	Ĺ			
L302	Di-n-octylphthalate	ug/L	L1		<	10			<	100			<	100			<	100	< .	100
L301	Dioxin Screen	ug/L	L1		<	10	<	100			<	100			<	100				
L302	Dioxin Screen	ug/L	L1		<	10			<	100			<	100			<	500	<	500
L301	Endosulfan I	ug/L	L1		<	0.5	<	0.5			<	0.5			<	0.5				
L302	Endosulfan I	ug/L	L1		<	0.5			<	0.5			<	0.5			<	1	<	1
L301	Endosulfan II	ug/L	L1		<	1	<	1			<	1			<	1				
L302	Endosulfan II	ug/L	L1		<	1			<	1	i		<	1			<	1	<	1
L301	Endosulfan Sulfate	ug/L	L1		<	1	<	1			<	1			<	1	·		T	
L302	Endosulfan Sulfate	ug/L	L1		<	1			<	1	ļ		<	1			<	1	<	1
L301	Endrin	ug/L	L1	l	<	1	7	1			<	1			<	1			\top	
L302	Endrin	ug/L	L1		<	1			<	1			<	1			<	1	<	1
L301	Endrin Aldehyde	ug/L	L1		<	1	<	1			<	1			<	1			1	
L302	Endrin Aldehyde	ug/L	L1		<	1			V<	1			<	1			<	1	<	1
L301	Ethyl Acetate	ug/L	L1		~	2000					<	10	!		-	14			+	
L302	Ethyl Acetate	ug/L	L1		<	2000			<	50			<	100			<	50	<	5
L301	Ethylbenzene	ug/L	L1			62						32				43	 		+-	
L302	Ethylbenzene	ug/L	L1		_	100	 		 	60	 		<	10	_		<	50	+-	32
L301	Fluoranthene	ug/L	L1		<	10		100			<	100	È		<	100			+	
L302	Fluoranthene	ug/L	L1		~	10	Ė	100	<	100	 	100	<	100	⊢`–	100	<	100	<	100
L302	Fluorene	ug/L ug/L	L1		<	10	<	100	- -		<	100	Ť	100	<	100	Ť	100	+-	100
L301	Fluorene	ug/L ug/L	L1		<	10	<u> </u>	100	<	100	<u> </u>	100	<	100	 `	100	<	100	<	100
L302	gamma-BHC (Lindane)	ug/L ug/L	L1		<	0.5	<	0.5	 `	100	<	0.5	⊢	100	<	0.5	È	100	+	100
	Y ' '	+ -			<	0.5	├~`	0.5	<	0.5	 `	0.5	<	0.5	- `	0.5	<	0.5	<	
L302	gamma-BHC (Lindane)	ug/L	L1			0.5		0.5	<u> </u>	0.5	 	0.5	<u> </u>	0.5		0.5	<u> </u>	0.5	₩	0.5
L301	Heptachlor	ug/L	L1		<		<	0.5		0.5	<	0.5		0.5	<	0.5	_	0.5	+_	0.5
L302	Heptachlor	ug/L	L1		<	0.5		0.5	<	0.5	-	0.5	<	0.5			< -	0.5	<	0.5
L301	Heptachlor Epoxide	ug/L	L1		<	0.5	<	0.5	<u> </u>		<	0.5			<	0.5	<u> </u>	0.5	₩	
L302	Heptachlor Epoxide	ug/L	L1		<	0.5	<u> </u>		<	0.5	L.		<	0.5	ļ		<	0.5	<	0.5
L301	Hexachlorobenzene	ug/L	L1		<	10	<	100	_	10.7	<	100			. <	100	<u> </u>	465	┼	
L302	Hexachlorobenzene	ug/L	L1	L	<	10			۲ .	100			<	100			<	100	<	100

Winnebago Landfill Permit Renewal Application

Well ID	Parameter	Units	List	151	Qtr08	2 r	ndQtr08	4th	Qtr08	2n	dQtr09	41	nQtr09	2n	dQtr10	41	nQtr10	2n	dQtr11	7 2r	dQtr12
L301	Hexachlorobutadiene	ug/L	L1	1	4	7	10	- · · · ·	100		44.00	<	100		44	<	100	<u> </u>	a Qui i i	┾	44112
L302	Hexachlorobutadiene	ug/L	L1	+		<	10			<	100	†	100	<	100			<	100	<	100
L301	Hexachlorocyclopentadiene	ug/L	L1	_		<	10	<	100	È	100	-	100	-	100	<	100	 `	100	⇈	100
L302	Hexachlorocyclopentadiene	ug/L	L1			\ \ \	10	È	- 100	<	100	 	100	<	100	·- <u>`</u>	100	<	100	<	100
L301	Hexachloroethane	ug/L	L1			· ·	10	<	100	È	100	<	100	l`	100	<	100	ì	100	┼	100
L302	Hexachloroethane	ug/L	L1	 		 	10	<u> </u>	100	<	100	 `	100	<	100		100	<	100	<	100
L302	Hexane Ext. Material (HEM) by SPE	mg/L	L1	<p< td=""><td>5</td><td>P,<</td><td>5</td><td>P.<</td><td>5</td><td>È</td><td>100</td><td>P.<</td><td>5</td><td> `</td><td>100</td><td>P<</td><td>6</td><td> </td><td>100</td><td>┾</td><td>. 100</td></p<>	5	P,<	5	P.<	5	È	100	P.<	5	 `	100	P<	6	 	100	┾	. 100
L302			L1	<p< td=""><td>5</td><td>P.<</td><td>5</td><td> F,_</td><td></td><td>P.<</td><td>6</td><td> [,`</td><td></td><td><</td><td>6</td><td></td><td>0</td><td><</td><td>5</td><td>-</td><td>5</td></p<>	5	P.<	5	F,_		P.<	6	 [,`		<	6		0	<	5	-	5
	Hexane Ext. Material (HEM) by SPE	mg/L		ν,	3	F,\ <	10	<	100	Ρ,\		<	100	 `		<	100	<u> </u>	5	⊬	<u> </u>
L301	Indeno(1,2,3-cd)pyrene	ug/L	L1	<u> </u>		~	10	<u> </u>	100	<	400	 `	100	!	400		100	<	400	-	400
L302	Indeno(1,2,3-cd)pyrene	ug/L	L1	-		 	10	-		<u> </u>	100	 		<	100			-	100	 -	100
L301	lodomethane	ug/L	L1			<				<u> </u>		<u> </u>	1			_<	1	-		┼	
L302	lodomethane	ug/L	L1	 		<	1			<	5	 		<	10			<	50	<	5
L301	Isopropylbenzene	ug/L	L1	_		├	4					<u> </u>	1.7	├			2.4			╄	
L302	Isopropylbenzene	ug/L	L1	1		<u> </u>	8			<	5	ļ		<	10			<	50	╄	7.6
L301	m,p-Xylene	ug/L	L1	₩		ļ	130	<u> </u>		<u> </u>		₩	48	ļ			9.1			₩	
L302	m,p-Xylene	ug/L	L1	1		<u> </u>	240			<u> </u>	100	1		<	10	<u> </u>			74	₩	47
L301	Methoxychlor	ug/L	L1			<	5	<	5	<u> </u>		<	5	<u> </u>		<	5	<u> </u>		Щ.	
L302	Methoxychlor	ug/L	L1			<	5			<	5			<	5			<	5	<	5
L301	Methylene Chloride	ug/L	L1	<u> </u>			8					<	5			<	5			丄	
L302	Methylene Chloride	ug/L	L1	1			20			<	25	<u> </u>		<	50			<	50	<	5
L301	m-Xylene	ug/L	L1	J									48								
L302	m-Xylene	ug/L	L1																	\Box	
L301	Naphthalene	ug/L	L1	1		<	10	<	100			<	100			<	100			\Box	
L302	Naphthalene	ug/L	L1			<	10			<	100			<	100			<	100	<	100
L301	n-Butanol	ug/L	L1			<	200000					<	1000			<	1000			\vdash	
L302	n-Butanol	ug/L	L1				210000			<	5000			<	10000			<	10000		3600
L301	n-Butylbenzene	ug/L	L1			<	1					<	1	1		<	1			\top	
L302	n-Butylbenzene	ug/L	L1				2			<	5			<	10			<	50	<	5
L301	Nitrobenzene	ug/L	L1			<	10	<	100			<	100			<	100			1	
L302	Nitrobenzene	ug/L	L1			~	10			<	100			<	100			<	100	<	100
L301	N-Nitrosodimethylamine	ug/L	L1			~	10	<	100			<	100	1		<	100			+	
L302	N-Nitrosodimethylamine	ug/L	L1			<	10			<	100			<	100			<	100	<	100
L301	N-Nitroso-di-n-propylamine	ug/L	L1	†	•			<	100			<	100	 		_	100	-		+	
L302	N-Nitroso-di-n-propylamine	ug/L	L1									†		<	100			<	100	<	100
L301	N-Nitrosodiphenylamine	ug/L	L1			 	10	<	100			<	100	 		<	100			+	
L302	N-Nitrosodiphenylamine	ug/L	L1			<	10		100	<	100	+		<	100	<u> </u>	100	<	100	<	100
L301	n-Propylbenzene	ug/L	L1				4	1			100	1	1.8	l ·	100		1.9	Ė	100	÷	100
L302	n-Propylbenzene	ug/L	L1	1		 	7			<	5	1	1.0	<	10		1.5	<	50	<	5
L301	o-Xvlene	ug/L	L1				59	-		<u> </u>		1	23	 ` -			17	H	30	├	
L301	· · · · · · · · · · · · · · · · · · ·		L1	· · · · ·		\vdash	120				43	+	20	<	10	-	17	<	50	+-	23
	o-Xylene	ug/L	L1	-		-	2	-	2	-	43	-	0.2	+	10	<	2	H	50	+-	23
L301	Parathion	ug/L				-	2	 `		<	0.2	l`	0.2	 	0.0	<u> </u>	۷			+	
L302	Parathion	ug/L	L1	 					0.5	<u> </u>	0.2	l	0.05	<	0.2	_	0.5	<	2	<	2
L301	Pentachlorophenol	ug/L	L1	1		<	0.5	<	0.5	-	0.05	<	0.05	 	0.05	<	0.5	-	0.1	+-	
L302	Pentachlorophenol	ug/L	L1			<	0.5	 	400	T<	0.05	+ -	400	<	0.05		400	<	0.4	<	0.4
L301	Phenanthrene	ug/L	L1	 		<	10	<	100	├─	45-	<	100	₩	10-	<	100	<u> </u>	46-	₩	
L302	Phenanthrene	ug/L	L1	-		<	10			<	100	1		<	100			<	100	<	100
L301	Phenolics	ug/L	L1	ļ	0.17	 	0.12	<u> </u>	1.3	<u> </u>		QR<	0.025	<u> </u>			0.058			₩.	
L302	Phenolics	ug/L	L1	ļ	0.96	L-	0.94				0.068	_		ļ	0.065			ļ	0.038	₩	1.2
L301	p-Isopropyltoluene	ug/L	L1	<u> </u>		<u> </u>	15						5	ļ		<	1		_	\perp	
L302	p-Isopropyltoluene	ug/L	L1				28				28			<	10	l .		<	50	<	5

Table 3

Well ID	Parameter	Units	List	1stQtr08	2n	dQtr08	4th	Qtr08	2n	dQtr09	4tt	Qtr09	2n	dQtr10	4th	Qtr10	2n	dQtr11	21	ndQtr12
L301	Polychlorinated Biphenyls(PCBs)	ug/L	L1		<	5	<	5			<	5			<	- 5			1	
L302	Polychlorinated Biphenyls(PCBs)	ug/L	L1		<	5			<	5			<	5	1		<	5	<	10
L301	p-Xylene	ug/L	L1									48								
L302	p-Xylene	ug/L	L1																1	
L301	Pyrene	ug/L	L1		<	10	<	100			<	100			<	100			1	
L302	Pyrene	ug/L	L1		<	10			<	100			<	100			<	100	<	100
L301	sec-Butylbenzene	ug/L	L1		<	1					<	1			<	1				
L302	sec-Butylbenzene	ug/L	L1			1			<	5			<	10			<	50	<	5
L301	Silvex	ug/L	L1		<	0.5	<	0.5			<	0.05			<	0.5			1	
L302	Silvex	ug/L	L1		<	0.5			T<	0.05			<	0.05			<	0.5		1.3
L301	Styrene	ug/L	L1		<	1					<	1			<	1				
L302	Styrene	ug/L	L1		<	1			<	5			<	10			<	50	<	5
L301	tert-Butylbenzene	ug/L	L1		<	1					<	1			<	1				
L302	tert-Butylbenzene	ug/L	L1		<	1			<	5	T T		<	10			<	50	<	5
L301	Tetrachloroethene	ug/L	L1		<	1					<	1		•	<	1			i i	
L302	Tetrachloroethene	ug/L	L1			6			<	5			<	10			<	50	<	5
L301	Tetrahydrofuran	ug/L	L1			4300		2100				1400				50			1	
L302	Tetrahydrofuran	ug/L	L1			15000				1100				220				770	1	1000
L301	Toluene	ug/L	L1			150						2.6				2.3				
L302	Toluene	ug/L	L1			440				54			<	10			<	50		16
L301	Toxaphene	ug/L	L1		<	15	<	15			<	15			<	15				
L302	Toxaphene	ug/L	L1		<	15			<	15			<	15	l		<	5	<	5
L301	trans-1,2-Dichloroethene	ug/L	L1		<	1					<	1			<	1				
L302	trans-1,2-Dichloroethene	ug/L	L1		<	1			<	5			<	10			<	200	<	20
L301	trans-1,3-Dichloropropene	ug/L	L1		<	1					<	1			<	1				
L302	trans-1,3-Dichloropropene	ug/L	L1		<	1			<	5			<	10			<	50	<	5
L301	trans-1,4-Dichloro-2-butene	ug/L	L1		<	1					<	1			<	1				
L302	trans-1,4-Dichloro-2-butene	ug/L	L1			17			<	. 5			<	10			<	50	<	5
L301	Trichloroethene	ug/L	L1		<	1					<	1			<	1				
L302	Trichloroethene	ug/L	L1			9			<	5	Ì		<	10			<	50	<	5
L301	Trichlorofluoromethane	ug/L	Ĺ1		<	. 1					<	11			<	1	L			
L302	Trichlorofluoromethane	ug/L	L1		<	1			<	5			<	10			<	50	<	5
L301	Vinyl Acetate	ug/L	L1		<	5					<	5			<	5				
L302	Vinyl Acetate	ug/L	L1		<	5			<	25			<	50			<	50	<	5
L301	Vinyl Chloride	ug/L	L1		<	2					<	2			<	2				
L302	Vinyl Chloride	ug/L	L1		<	2			<	10			<	20			<	50	<	5
L301	Xylenes (Total)	ug/L	L1			190						71				26				
L302	Xylenes (Total)	ug/L	L1			360				140			<	30			<	150		70

Table 4 – Southern Unit Leachate Evaluation

Table 4 Southern Unit Leachate Comparison to GIA Source Concentration

Parameter	Units	Maximum	AGQS	Model	Predicted Model	Pass ?		
rarameter	Units	Leachate	AGGS	Prediction	Concentration	if		
		Concentration		Factor	(PMC)	PMC <agqs< th=""></agqs<>		
Inorganics	1				<u> </u>			
All		5600	960	0.00410	20.0000	VEC		
Alkalinity, Bicarbonate as CaCO3 Aluminum, total	mg/l mg/l	0.82	8316.62	0.00410	22.96000 0.00013	YES YES		
Ammonia as N, total	mg/l	1100	0.65	0.00016	0.05830	YES		
Antimony, total	ug/l	0.032	3	0.00567	0.00018	YES		
Arsenic, total	ug/l	0.1	3.69	0.00583	0.00058	YES		
Barium, total	ug/l	0.78	295.31	0.00144	0.00112	YES		
Beryllium, total	ug/l	ND	2.66	0.01120	NA NA	YES		
Biochemical Oxygen Demand	mg/l	1100	7.16	NA	NA	YES		
Boron, total	ug/l	7.8	179.1	0.00040	0.00309	YES		
Cadmium, total	ug/l	ND	2.63	0.00467	NA	YES		
Calcium, total	mg/l	300	231.36	0.00413	1.23900	YES		
Chemical Oxygen Demand	mg/l	7400	12.91	NA	NA NA	YES		
Chloride, total	mg/l	1900	190	0.00576	10.94210	YES		
Chromium, Hexavalent	mg/l	NA 0.17	NA 30.59	0.00064 0.00100	0.00017	YES		
Chromium, total	ug/l ug/l	0.034	4.99	0.00100	0.00017	YES YES		
Cobalt, total Copper, total	ug/l	0.099	8.75	0.00087	0.00004	YES		
Cyanide, total	mg/l	ND	0.005	0.00847	0.00003 NA	YES		
Fecal Coliform	cfu/100 m!	1300	NA	NA	NA NA	YES		
Fluoride, total	mg/l	0.53	1.46	0.00074	0.00039	YES		
Iron, total	ug/l	19	8201	0.00002	0.00034	YES		
Lead, total	ug/l	0.012	4.68	0.00005	0.00000	YES		
Magnesium, total	mg/l	250	110.28	0.00442	1.10600	YES		
Manganese, total	ug/l	0.65	528.32	0.00040	0.00026	YES		
Mercury, total	ug/l	0.00032	0.2	0.00064	0.00000	YES		
Nickel, total	ug/l	0.25	61.28	0.00193	0.00048	YES		
Nitrate as N, total	mg/l	0.9	18.2108	0.00639	0.00575	YES		
pH	units	8.95 6.2	NA NA	0.00016	NA 0.00097	YES		
Phosphorus, total Potassium, total	mg/l mg/l	540	14.2869	0.00016	5.52636	YES YES		
Selenium, total	ug/l	0.095	4.8	0.00769	0.00073	YES		
Silver, total	mg/l	ND	5	0.00167	0.00073 NA	YES		
Sodium, total	mg/l	1600	51.238	0.00058	0.92000	YES		
Specific Conductance	umhos/cm3	13550	3770	NA NA	NA NA	YES		
Sulfate, total	mg/l	600	288.005	0.02626	15.75420	YES		
Thallium, total	ug/l	0.004	3.76	0.00170	0.00001	YES		
Tin, total	ug/l	ND	NA NA	NA NA	NA NA	YES		
Total Dissolved Solids	mg/l	6400	2800.31	0.00580	37.12000	YES		
Total Organic Carbon	mg/l	1600	9.61	NA	NA NA	YES		
Total Suspended Solids	mg/l	240 0.078	NA 0.400	NA 0.00000	NA	YES		
Vanadium, total	ug/l ug/l	0.078	9.496 121.64	0.00080 0.00016	0.00006 0.00002	YES YES		
Zinc, total Organics	- ug/i		121.04	0.00016	0.00002	169		
Organica					}			
1,1,1,2-Tetrachloroethane	ug/l	ND	5	NA	NA NA	YES		
1,1,1-Trichloroethane	ug/l	ND	5	0.00664	NA NA	YES		
1,1,2,2-Tetrachloroethane	ug/l	ND	5	NA	NA .	YES		
1,1,2-Trichloroethane_	ug/l	8	5	NA NA	NA	YES		
1,1-Dichloroethane	ug/l	ND ND	5	0.00664	NA NA	YES		
1,1-Dichloroethene	ug/l	ND ND	5	NA NA	NA NA	YES		
1,1-Dichloropropene	ug/l	ND ND	5	NA NA	NA NA	YES		
1,2,3-Trichlorobenzene	ug/l	ND ND	5	NA NA	NA NA	YES		
1,2,3-Trichloropropane	ug/l	D ND	5	NA NA	NA NA	YES YES		
1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	ug/l ug/l	ND	5	0.00637	0.36309	YES		
1,2-Dibromo-3-chloropropane	ug/i	ND ND	5	0.00664	0.36309 NA	YES		
1,2-Dibromoethane	ug/l	- ND	5	NA	NA NA	YES		
1,2-Dichlorobenzene	ug/l	ND	5	0.00004	NA NA	YES		
1,2-Dichloroethane	ug/l	29	5	0.00664	0.19247	YES		
1,2-Dichloropropane	ug/l	4	5	NA	NA	YES		
1,3,5-Trimethylbenzene	ug/l	17	5	0.00664	0.11283	YES		
1,3-Dichlorobenzene	ug/l	33	5	0.00004	0.00127	YES		
1,3-Dichloropropane	ug/l	ND ND	5	NA NA	NA NA	YES		
1,3-Dichloropropene	ug/l	ND	5	NA	NA NA	YES		
1,4-Dichlorobenzene	ug/l	31	5	0.00004	0.00119	YES		
1-Propanol (2Q08 max)	ug/l	240000	1000	0.00580	1392.00000	NO		
1-Propanol (2Q12 max)	ug/l	2700	1000	0.00580	15.66000	YES		
2,2-Dichloropropane	ug/l	ND ND	5	NA NA	NA NA	YES		
2,4,6-Trichlorophenol	ug/l	ND 3.3	NA 10	0.00064	0.00210	YES YES		
2,4-D 2,4-Dichlorophenol	ug/l ug/L		NA	0.00064 NA	0.00210 NA	YES		
2,4-Dichlorophenol	ug/L	ND ND	NA NA	NA NA	NA NA	YES		
Z,T-Dillicinyiphenoi	լ ացո		1 110	1 1474	1 1414	150		



Table 4 Southern Unit Leachate Comparison to GIA Source Concentration

Parameter	Units	Maximum Leachate Concentration	AGQS	Model Prediction Factor	Predicted Model Concentration (PMC)	Pass ? if PMC <agqs< th=""></agqs<>
2,4-Dinitrophenol	ug/l	ND	NA NA	NA NA	NA (FINC)	YES
2,4-Dinitrotoluene	ug/l	ND	NA NA	NA NA	NA NA	YES
2,6-Dinitrotoluene	ug/l	ND	NA NA	NA 0.00000	NA 10 00000	YES
2-Butanone (2Q08 Max)	ug/l	24000	10	0.00083	19.99200	NO_
2-Butanone (2Q12 Max)	ug/l	2100	10	0.00083	1.74930	YES
2-Chloroethyl vinyl ether	ug/l	ND	NA NA	NA NA	NA NA	YES
2-Chloronaphthalene	ug/l	ND	NA	NA	NA NA	YES
2-Chlorophenol	ug/l	ND	NA	NA	NA NA	YES
2-Chlorotoluene	ug/l	ND	1	0.00004	NA NA	YES
2-Hexanone	ug/l	360	50	0.00660	2.37600	YES
2-Nitrophenol	ug/l	ND	NA NA	NA	NA NA	YES
2-Propanol	ug/l	8000	1000	0.00580	46.40000	YES
3,3'-Dichlorobenzidine		ND	NA NA			
	ug/l			NA ·	NA NA	YES
1,4'-DDD	ug/l	ND	NA.	NA	NA NA	YES
4,4'-DDE	ug/l	ND	NA	NA NA	NA NA	YES
1,4'-DDT	ug/l	ND	0.1	NA	NA NA	YES
4,6-Dinitro-2-methylphenol	ug/l	ND	NA	NA	NA I	YES
4-Bromophenyl-phenylether	ug/l	ND	NA NA	NA	NA NA	YES
I-Chlorophenyl-phenyl Ether	ug/l	ND	NA	NA	NA NA	YES
I-Chlorotoluene	ug/l	ND	1 1	NA NA	NA NA	YES
		2400	10	0.00664		
4-Methyl-2-pentanone (2008 Max)	ug/l				15.92880	NO NO
I-Methyl-2-pentanone (2Q12 Max)	ug/l	70	10	0.00664	0.46459	YES
I-Methylphenol	ug/l	370	10	0.00064	0.23680	YES
1-Nitrophenol	ug/l	ND	NA	NA	NA_	_YES
Acenaphthene	ug/l	ND	NA NA	NA	NA NA	YES
Acetone (2Q08 Max)	ug/l	40000	100	0.00653	261,24000	NO
Acetone (2Q12 Max)	ug/l	3100	100	0.00653	20.24610	YES
Alachlor		ND ND	2	0.00664	NA	
	ug/l					YES
Aldicarb	ug/l	2.9	1	0.00664	0.01926	YES
Aldrin	ug/l	ND	0.5	NA NA	NA	YES
alpha-BHC	ug/l	ND	NA .	NA	NA NA	YES
Anthracene	ug/l	ND	NA -	NA NA	NA NA	YEŞ
Atrazine	ug/l	ND	3	NA NA	NA NA	YES
Benzene	ug/l	36	5	0.00664	0.23893	YES
Benzo(a)anthracene	ug/l	ND	NA NA	NA NA	NA NA	YES
Benzo(a)pyrene	ug/l	ND	10	NA NA	NA NA	YES
Benzo(b)fluoranthene	ug/l	ND	NA	NA NA	NA	YES
Benzo(g,h,i)perylene	ug/l	ND	NA	NA NA	NA	YES
Benzo(k)fluoranthene	ug/l	ND	NA NA	ŇA	NA NA	YES
oeta-BHC	ug/l	ND	NA NA	NA	NA NA	YES
bis(2-Chloroethoxy)methane	ug/i	ND	NA	NA NA	NA NA	YES
bis(2-Chloroethyl) Ether	ug/i	ND	NA NA	NA NA	NA NA	YES
ois(2-Chloroisopropyl)Ether	ug/l	ND	NA NA	NA	NA NA	YES
ois(2-Ethylhexyl)phthalate	ug/l	ND ND	72	NA NA	NA NA	YES
ois(Chloromethyl) ether	ug/l	ND	10	NA NA	NA NA	YES
Bromobenzene	ug/l	ND	5	NA NA	NA	YES
Bromochloromethane	ug/l	ND	5	NA	NA .	YES
Bromodichloromethane	ug/l	ND	5	NA_	NA	YES
Bromoform	ug/l	ND	5	ŇĀ	NA I	YES
Bromomethane	ug/l	ND	10	0.00664	NA I	YES
Butylbenzylphthalate	ug/l	ND	NA	NA NA	NA NA	YES
Carbofuran	ug/l	ND	10	NA NA	NA NA	YES
Carbon Disulfide	ug/l	21	5	0.00664	0.13938	
		ND ND				YES
Carbon Tetrachloride	ug/l		5	NA NA	NA NA	YES
Chlordane	ug/l	ND	10	NA	NA NA	YES
Chlorobenzene	ug/l	1	5	NA NA	NA NA	YES
Chloroethane	ug/l	ND	10	0.00664	NA NA	YES
Chloroform	ug/l	ND	5	0.00664	NA	YES
Chloromethane	ug/l	ND	10	NA	NA NA	YES
Chrysene	ug/l	ND	NA NA	NA	NA NA	YES
sis-1,2-Dichloroethene	ug/l	27	5	0.00664	0.17928	
Ad- 1,2 Dionordeniene						YES
lelta-BHC	ug/l	ND ND	NA NA	NA NA	NA NA	YES
Dibenzo(a,h)anthracene	ug/l	ND	NA	NA	NA	YES
Dibromochloromethane	ug/l	ND	5	NA_	NA NA	YES
Dibromomethane	ug/l	ND	5	NA	NA NA	YES
ichlorodifluoromethane	ug/l	ND	5	0.00664	NA NA	YES
ieldrin	ug/l	ND	0.25	NA	NA NA	YES
iethylphthalate	ug/i	ND ND	100	NA NA	NA NA	YES
Dimethylphthalate	ug/l	ND	100	NA NA	NA NA	YES
Di-n-butylphthalate	ug/l	ND	100	NA	NA NA	YES
Di-n-octylphthalate	ug/i	ND	NA NA	NA	NA	YES
Dioxin Screen	ug/i	ND	NA NA	NA	NA NA	YES
ndosulfan I	ug/l	ND	NA NA	NA	NA NA	YES
	ug/l	ND ND	NA I	NA NA	NA NA	YES
		NU				
ndosulfan II		NID.				
ndosulfan II ndosulfan Sulfate	ug/l	ND ND	NA 0.25	NA NA	NA NA	YES
ndosulfan II ndosulfan Sulfate ndrin	ug/l ug/l	ND	0.25	_NA	NA	YES
ndosulfan II ndosulfan Sulfate ndrin ndrin Aldehyde	ug/l ug/l ug/l	ND ND	0.25 NA	NA NA	NA NA	YES YES
ndosulfan II ndosulfan Sulfate ndrin ndrin Aldehyde thyl Acetate	ug/l ug/l	ND ND 14	0.25 NA NA	NA NA NA	NA NA NA	YES
Indosulfan II Indosulfan Sulfate Indrin Indrin Aldehyde Ethyl Acetate Ithyl Acetate	ug/l ug/l ug/l	ND ND	0.25 NA	NA NA	NA NA	YES YES

Table 4 Southern Unit Leachate Comparison to GIA Source Concentration

Winnebago Landfill Permit Renewal Application

Parameter	Units	Maximum	AGQS	Model	Predicted Model	Pass ?
	i	Leachate		Prediction	Concentration	if
		Concentration		Factor	(PMC)	PMC <agqs< td=""></agqs<>
Fluorene	ug/l	ND	NA	NA NA	NA	YES
gamma-BHC (Lindane)	ug/l	ND	10	NA NA	NA I	YES
Heptachlor	ug/l	ND	10	NA	NA .	YES
Heptachlor Epoxide	ug/l	ND	10	NA NA	NA	YES
Hexachlorobenzene	ug/l	ND	NA	NA	NA NA	YES
Hexachlorobutadiene	ug/l	ND	10	NA NA	NA	YES
Hexachlorocyclopentadiene	ug/l	ND	10	NA	NA	YES
Hexachloroethane	ug/i	ND	NA	NA	NA	YES
Hexane Ext. Material (HEM) by SPE	mg/l	ND	5	0.00003	NA	YES
Indeno(1,2,3-cd)pyrene	ug/i	ND	NA	NA	NA	YES
lodomethane	ug/l	ND	1	NA	NA NA	YES
Isopropylbenzene	ug/l	4	5	0.00660	0.02640	YES
m,p-Xylene	ug/l	130	5	0.00005	0.00663	YES
Methoxychlor	ug/l	ND	10	NA	NA	YES
Methylene Chloride	ug/l	20	10	0.00664	0.13274	YES
m-Xylene	ug/l	48	5	0.00004	0.00185	YES
Naphthalene	ug/l	ND	10	0.00604	NA NA	YES
n-Butanol	ug/l	210000	1000	NA	NA NA	YES
n-Butylbenzene	ug/l	2	5	0.00004	0.00008	YES
Nitrobenzene	ug/l	ND	NA	NA	NA NA	YES
N-Nitrosodimethylamine	ug/l	ND	NA	NA	NA NA	YES
N-Nitroso-di-n-propylamine	ug/l	ND	NA	NA	NA NA	YES
N-Nitrosodiphenylamine	ug/l	ND	NA	NA	NA NA	YES
n-Propylbenzene	ug/l	7	5	0.00004	0.00027	YES
o-Xylene	ug/l	120	5	0.00664	0.79644	YES
Parathion	ug/l	ND	10	0.00064	NA NA	YES
Pentachlorophenol	ug/l	ND	50	NA	NA NA	YES
Phenanthrene	ug/l	ND	NA	NA	NA NA	YES
Phenolics	ug/l	1.3	5	0.00064	0.00083	YES
p-Isopropyltoluene	ug/l	28	5	0.00664	0.18584	YES
Polychlorinated Biphenyls(PCBs)	ug/l	ND	5	0.00660	NA NA	YES
p-Xylene	ug/l	48	5	0.00004	0.00185	YES
Pyrene	ug/l	ND	NA	NA	NA NA	YES
sec-Butylbenzene	ug/l	1	5	NA	NA NA	YES
Silvex	ug/l	1.3	2	NA	NA NA	YES
Styrene	ug/i	ND	5	0.00664	NA NA	YES
tert-Butylbenzene	ug/l	ND	5	NA	NA NA	YES
Tetrachloroethene	ug/l	6	5	0.00664	0.03982	YES
Tetrahydrofuran	ug/l	15000	7	0.00019	2.88000	YES
Toluene	ug/l	440	5	0.00182	0.80080	YES
Toxaphene	ug/l	ND	10	NA	NA NA	YES
trans-1,2-Dichloroethene	ug/l	ND	5	NA	NA	YES
trans-1,3-Dichloropropene	ug/l	ND	5	NA	NA NA	YES
trans-1,4-Dichloro-2-butene	ug/l	17	5	NA	NA NA	YES
Trichloroethene	ug/l	9	10	0.00664	0.05973	YES
Trichlorofluoromethane	ug/l	ND	5	0.00664	NA NA	YES
Vinyl Acetate	ug/l	ND ND	10	0.00004	NA NA	YES
Vinyl Chloride	ug/l	ND	2	0.00004	NA NA	YES
Xylenes (Total)	ug/l	360	5	0.00134	0.48132	YES

Notes

Notes: NA - No AGQS Value ND - Not Detected

^{**} The Model Prediction Factors were determined in the 2002 Renewal application by dividing the "computer simulated concentration" by the "initial source concentration" from the original GIA.

Table 5 – Southern Unit/Expansion Wedge Leachate Evaluation Andrews Engineering, Inc. Winnebago Landfill

J:\1990\90-114 (Winnebago)\DOC\2013 Renewal Application\2013 permit renewal text (fmt).doc; Applications

Permit Renewal Application (November 2012)

Table 5 Southern Unit Expansion - Leachate Evaluation

Parameters	Units	AGQS	Max Leach. Conc.	Model Prediction Factor	Max Predicted Concentration	Pass?
Inorganics						
Alkalinity, Bicarbonate as CaCO3	mg/l	960.000	5600	2.37E-07	1.33E-03	YES
Aluminum, total	mg/l	8316.620	0.82	2.37E-07	1.94E-07	YES
Ammonia as N, total	mg/l	0.650	1100	2.37E-07	2 61E-04	YES
Antimony, total	ug/l	3.000	0.032	2.37E-07	7.58E-09	YES
Arsenic, total	ug/l	3.690	0.1	2.37E-07	2.37E-08	YES
Barium, total	ug/l	295.310	0.78	2.37E-07	1 85E-07	YES
Beryllium, total	ug/l	2.660	ND	2.37E-07	NA NA	YES
Biochemical Oxygen Demand	mg/l	7.160	1100	2.37E-07	2 61E-04	YES
loron, total	ug/l	179.100	7.8	2.37E-07	1 85E-06	YES
Cadmium, total	ug/l	2.630	ND	2.37E-07	NA NA	YES
Calcium, total	mg/l	231.360	300	2.37E-07	7.11E-05	YES
hemical Oxygen Demand	mg/l	12.910	7400	2.37E-07	1.75E-03	YES
Chloride, total	mg/l	190.000	1900	2.37E-07	4.50E-04	YES
Chromium, Hexavalent	mg/l	NA	NA NA	2.37E-07	NA	YES
Chromium, total	ug/l	30.590	0.17	2.37E-07	4.03E-08	YES
Cobalt, total	ug/l	4.990	0.034	2.37E-07	8.06E-09	YES
opper, total	ug/i	8.750	0.099	2.37E-07	2.35E-08	YES
yanide, total	mg/l	0.005	ND	2.37E-07	NA NA	YES
ecal Coliform	cfu/100 ml	NA	1300	2.37E-07	3.08E-04	YES
luoride, total	mg/l	1.460	0.53	2 37E-07	1.26E-07	YES
ron, total	ug/l	8201.000	19	2.37E-07	4.50E-06	YES
ead, total	ug/l	4.680	0.012	2.37E-07	2.84E-09	YES
Magnesium, total	mg/l	110.280	250	2.37E-07	5 93E-05	YES
flanganese, total	ug/l	528.320	0.65	2.37E-07	1 54E-07	YES
Mercury, total	ug/l	0.200	0.00032	2.37E-07	7 58E-11	YES
lickel, total	ug/l	61.280	0.25	2.37E-07	5 93E-08	YES
litrate as N, total	mg/l	18.211	0.9	2.37E-07	2.13E-07	YES
Н	units	NA.	8.95	2.37E-07	2 12E-06	YES
hosphorus, total	mg/l	NA	6.2	2.37E-07	1 47E-06	YES
otassium, total	mg/l	14.287	540	2.37E-07	1 28E-04	YES
Selenium, total	ug/l	4.800	0.095	2.37E-07	2 25E-08	YES
Silver, total	mg/l	5.000	ND	2.37E-07	NA NA	YES
Sodium, total	mg/l	51.238	1600	2.37E-07	3.79E-04	YES
Specific Conductance	umhos/cm3	3770.000	13550	2.37E-07	3.21E-03	YES
Sulfate, total	mg/l	288.005	600	2.37E-07	1.42E-04	YES
[hallium, total	ug/l	3.760	0.004	2.37E-07	9.48E-10	YES
in, total	ug/l	NA	ND	2.37E-07	NA .	YES
Total Dissolved Solids	mg/l	2800.310	6400	2.37E-07	1.52E-03	YES
otal Organic Carbon	mg/l	9.610	1600	2.37E-07	3.79E-04	YES
otal Suspended Solids	mg/l	NA	240	2.37E-07	5.69E-05	YES
/anadium, total	ug/l	9.496	0.078	2 37E-07	1.85E-08	YES
Inc, total Organics	ug/l	121.640	0.13	2.37E-07	3.08E-08	YES
_		E 000	ND.	0.075.07		1/50
,1,1,2-Tetrachloroethane	ug/l	5.000	ND	2.37E-07	NA	YES
,1,1-Trichloroethane	ug/l	5.000	ND	2.37E-07	NA NA	YES
,1,2,2-Tetrachloroethane	ug/l	5.000	ND 8	2.37E-07	NA 1 00E 06	YES
,1,2-Trichloroethane	ug/l	5.000	ND 8	2.37E-07 2.37E-07	1 90E-06 NA	YES YES
,1-Dichloroethene	ug/l ug/l	5.000	ND ND	2.37E-07 2.37E-07	NA NA	YES
,1-Dichloropropene	ug/l	5.000	ND ND	2.37E-07 2.37E-07	NA NA	YES
,2,3-Trichlorobenzene	ug/l	5.000	ND	2.37E-07	NA NA	YES
,2,3-Trichloropropane	ug/l	5.000	ND I	2.37E-07	NA NA	YES
,2,4-Trichlorobenzene	ug/l	5.000	ND	2.37E-07	NA NA	YES
,2,4-Trimethylbenzene	ug/l	5.000	57	2.37E-07	1 35E-05	YES
,2-Dibromo-3-chloropropane	ug/l	5.000	ND	2.37E-07	NA NA	YES
,2-Dibromoethane	ug/l	5.000	ND	2.37E-07	NA NA	YES
,2-Dichlorobenzene	ug/l	5.000	ND	2.37E-07	NA NA	YES
,2-Dichloroethane	ug/l	5.000	29	2.37E-07	6.87E-06	YES
,2-Dichloropropane	ug/l	5.000	4	2.37E-07	9.48E-07	YES
,3,5-Trimethylbenzene	ug/l	5.000	17	2.37E-07	4.03E-06	YES
,3-Dichlorobenzene	ug/l	5.000	33	2.37E-07	7.82E-06	YES
,3-Dichloropropane	ug/l	5.000	ND	2.37E-07	NA NA	YES
,3-Dichloropropene	ug/l	5.000	ND	2.37E-07	NA NA	YES
,4-Dichlorobenzene	ug/l	5.000	31	2.37E-07	7.35E-06	YES
-Propanol	ug/l	1000.000	240000	2.37E-07	5.69E-02	YES
2,2-Dichloropropane	ug/l	5.000	ND ND	2.37E-07	NA	YES
2,4,6-Trichlorophenol	ug/l	NA NA	ND	2.37E-07	NA NA	YES
2,4-D	ug/i	10.000	3.3	2.37E-07	7.82E-07	YES
2,4-Dichlorophenol	ug/L	NA NA	ND	2.37E-07	NA NA	YES
2,4-Dimethylphenol	ug/l	NA	ND	2.37E-07	NA NA	YES
.,	49"	1	.,,,	2.51	1963	123

Table 5 Southern Unit Expansion - Leachate Evaluation

Parameters	Units	AGQS	Max Leach. Conc.	Model Prediction Factor	Max Predicted Concentration	Pass?
2,4-Dinitrophenol	ug/l	NA	ND	2.37E-07	NA -	YES
2,4-Dinitrotoluene	ug/l	NA	ND	2.37E-07	NA	YES
2,6-Dinitrotoluene	ug/l	NA	ND	2.37E-07	NA NA	YES
2-Butanone	ug/l	10.000	24000	2.37E-07	5.69E-03	YES
2-Chloroethyl vinyl ether	ug/l	NA NA	ND ND	2.37E-07 2.37E-07	NA NA	YES
2-Chloronaphthalene 2-Chlorophenol	ug/l ug/l	NA NA	ND ND	2.37E-07	NA NA	YES
2-Chlorotoluene	ug/l	1.000	ND ND	2.37E-07	NA NA	YES
2-Hexanone	ug/l	50.000	360	2.37E-07	8.53E-05	YES
2-Nitrophenol	ug/l	NA	ND	2.37E-07	NA NA	YES
2-Propanol	ug/l	1000.000	8000	2.37E-07	1.90E-03	YES
3,3'-Dichlorobenzidine	ug/l	NA	ND	2 37E-07	NA NA	YES
4,4'-DDD	ug/l	NA	ND	2.37E-07	NA NA	YES
4,4'-DDE	ug/l	NA 0.100	ND	2.37E-07	NA NA	YES
4.4 DDT	ug/l	0.100	ND	2.37E-07	NA NA	YES
4.6-Dinitro-2-methylphenol	ug/l	NA NA	ND ND	2.37E-07	NA NA	YES
4-Bromophenyl-phenylether	ug/l ug/l	NA NA	ND ND	2.37E-07 2.37E-07	NA NA	YES YES
4-Chlorophenyl-phenyl Ether 4-Chlorotoluene	ug/l	1.000	ND I	2.37E-07	AN AN	YES
4-Methyl-2-pentanone	ug/l	10.000	2400	2.37E-07	5.69E-04	YES
4-Methylphenol	ug/l	10.000	370	2.37E-07	8.77E-05	YES
4-Nitrophenol	ug/l	NA	ND	2.37E-07	NA NA	YES
Acenaphthene	ug/l	NA	ND	2.37E-07	NA NA	YES
Acetone	ug/l	100.000	40000	2.37E-07	9 48E-03	YES
Alachlor	ug/l	2.000	ND	2.37E-07	NA .	YES
Aldicarb	ug/l	1.000	2.9	2.37E-07	6 87E-07	YES
Aldrin	ug/l	0.500	ND	2 37E-07	NA NA	YES
alpha-BHC	ug/i	NA	ND	2.37E-07	NA NA	YES
Anthracene	ug/l	3.000	ND ND	2.37E-07	NA NA	YES
Atrazine	ug/l	5.000	36	2.37E-07 2.37E-07	NA 8.53E-06	YES YES
Benzene Benzo(a)anthracene	ug/l ug/l	NA	ND	2.37E-07 2.37E-07	0.53E-06 NA	YES
Benzo(a)pyrene	ug/l	10.000	ND	2.37E-07	NA NA	YES
Benzo(b)fluoranthene	ug/l	NA	ND	2.37E-07	NA NA	YES
Benzo(g,h,i)perylene	ug/i	NA	ND	2.37E-07	NA NA	YES
Benzo(k)fluoranthene	ug/l	NA	ND	2.37E-07	NA NA	YES
beta-BHC	ug/l	NA	ND	2.37E-07	NA NA	YES
bis(2-Chloroethoxy)methane	ug/l	NA	ND	2.37E-07	NA NA	YES
bis(2-Chloroethyl) Ether	ug/l	NA	ND	2.37E-07	NA NA	YES
bis(2-Chloroisopropyl)Ether	ug/l	NA	ND	2.37E-07	NA NA	YES
bis(2-Ethylhexyl)phthalate	ug/l	72.000	ND	2.37E-07	NA NA	YES
bis(Chloromethyl) ether	ug/l	10.000 5.000	ND ND	2.37E-07	NA NA	YES
Bromobenzene Bromochloromethane	ug/l ug/l	5.000	ND ND	2.37E-07 2.37E-07	NA NA	YES YES
Bromodichloromethane	ug/l	5.000	ND ND	2.37E-07	NA NA	YES
Bromoform	ug/l	5.000	ND	2.37E-07	NA NA	YES
Bromomethane	ug/l	10.000	ND	2.37E-07	NA NA	YES
Butylbenzylphthalate	ug/l	NA	ND	2.37E-07	NA	YES
Carbofuran	ug/l	10.000	ND	2.37E-07	NA NA	YES
Carbon Disulfide	ug/l	5.000	21	2.37E-07	4.98E-06	YES
Carbon Tetrachloride	ug/i	5.000	ND	2.37E-07	NA NA	YES
Chlorobonzono	ug/l	10.000 5.000	ND 1	2 37E-07	NA 2.27E.07	YES
Chlorobenzene Chloroethane	ug/l ug/l	10.000	1 ND	2.37E-07 2.37E-07	2.37E-07 NA	YES YES
Chloroform	ug/l	5.000	ND ND	2.37E-07	NA NA	YES
Chloromethane	ug/l	10.000	ND ND	2.37E-07	NA NA	YES
Chrysene	ug/l	NA NA	ND ND	2.37E-07	NA -	YES
cis-1,2-Dichloroethene	ug/l	5.000	27	2.37E-07	6.40E-06	YES
delta-BHC	ug/l	NA	ND	2.37E-07	NA NA	YES
Dibenzo(a,h)anthracene	ug/l	NA_	ND	2.37E-07	NA NA	YES
Dibromochloromethane	ug/l	5.000	ND	2.37E-07	NA NA	YES
Dibromomethane	ug/l	5.000	ND	2.37E-07	NA	YES
Dichlorodifluoromethane	ug/l	5.000	ND	2.37E-07	NA	YES
Dieldrin Diethylopthalate	ug/l	0.250 100.000	ND ND	2.37E-07	NA NA	YES
Diethylphthalate	ug/l	100.000	ND ND	2.37E-07	NA NA	YES
Dimethylphthalate Di-n-butylphthalate	ug/l ug/l	100.000	ND ND	2.37E-07 2.37E-07	NA NA	YES
Di-n-octylphthalate	ug/l	NA	ND ND	2.37E-07 2.37E-07	NA NA	YES
Dioxin Screen	ug/l	NA NA	ND ND	2.37E-07	NA NA	YES
Endosulfan I	ug/l	NA NA	ND I	2.37E-07	NA T	YES
Endosulfan II	ug/l	NA	ND ND	2 37E-07	NA NA	YES
Endosulfan Sulfate	ug/l	NA	ND	2.37E-07	NA NA	YES
Endrin	ug/l	0.250	ND	2.37E-07	NA	YES
Endrin Aldehyde	ug/l	NA	ND	2.37E-07	NA NA	YES
Ethyl Acetate	ug/l	NA .	14	2.37E-07	3 32E-06	YES
Ethylbenzene	ug/l	5.000	100	2.37E-07	2 37E-05	YES
Fluoranthene	ug/L	NA	ND	2.37E-07	NA NA	YES

Table 5 Southern Unit Expansion - Leachate Evaluation

Winnebago Landifll Permit Renewal Application

Fluorene	Parameters	Units	AGQS	Max Leach. Conc.	Model Prediction Factor	Max Predicted Concentration	Pass?
Heptachlor	Fluorene	ug/l	NA	ND	2.37E-07	NA NA	YES
Hejtachlor Epoxide	gamma-BHC (Lindane)	ug/l	10.000	ND	2.37E-07	NA	YES
Hexachlorobenzene	Heptachlor	ug/l	10.000		2.37E-07	NA	YES
Hexachlorooytopentaliene	Heptachlor Epoxide	ug/l	10.000	ND	2.37E-07	NA NA	YES
Hexachlorocyclopentadiene	Hexachlorobenzene	ug/l			2.37E-07	NA	YES
Hexachloroethane	Hexachlorobutadiene	ug/l	10.000	NĎ	2.37E-07	NA NA	YES
Hexane Ext. Material (HEM) by S mg/l 5.000 ND 2.37E-07 NA YES Indenof (1, 2, 3-cd)pyrene ug/l 1.000 ND 2.37E-07 NA YES Isopropylbenzene ug/l 1.000 ND 2.37E-07 NA YES Isopropylbenzene ug/l 5.000 4 2.37E-07 9.48E-07 YES Isopropylbenzene ug/l 5.000 130 2.37E-07 9.48E-07 YES Isopropylbenzene ug/l 5.000 130 2.37E-07 NA YES Methylene Chioride ug/l 10.000 ND 2.37E-07 NA YES Methylene Chioride ug/l 10.000 ND 2.37E-07 NA YES Methylene Chioride ug/l 10.000 ND 2.37E-07 NA YES Naphthalene ug/l 10.000 ND 2.37E-07 NA YES Naphthalene ug/l 10.000 ND 2.37E-07 NA YES Naphthalene ug/l 10.000 ND 2.37E-07 NA YES N-Butsodimethylamine ug/l NA ND 2.37E-07 NA YES N-Nitrosodimethylamine ug/l S.000 120 2.37E-07 NA YES N-Nitrosodimethylamine ug/l S.000 ND 2.37E-07 NA YES Pentachiorophenol ug/l 5.000 ND 2.37E-07 NA YES Pentachiorophenol ug/l 5.000 ND 2.37E-07 NA YES Pentachiorophenol ug/l 5.000 ND 2.37E-07 NA YES Prenolics ug/l 5.000 ND 2.37E-07	Hexachlorocyclopentadiene	ug/l	10.000	ND	2.37E-07	NA NA	YES
Indeno(1,2,3-cd)pyrene	Hexachloroethane	ug/l		ND	2.37E-07	NA	YES
Indomethane	Hexane Ext. Material (HEM) by SI	mg/l	5.000	ND	2.37E-07	NA NA	YES
Sopropylbenzene	Indeno(1,2,3-cd)pyrene	ug/l	NA	ND	2.37E-07	NA NA	YES
Methoxychlor	lodomethane	ug/l	1.000	ND	2.37E-07	NA NA	YES
Methoxychlor ug/l 10,000 ND 2,37E-07 NA YES Methylene Chloride ug/l 10,000 20 2,37E-07 4,74E-06 YES m-Xylene ug/l 5,000 48 2,37E-07 NA YES Naphthalene ug/l 10,000 ND 2,37E-07 NA YES n-Butanol ug/l 10,000 20000 2,37E-07 NA YES n-Butylbenzene ug/l 5,000 2 2,37E-07 NA YES N-Nitrosodimethylamine ug/l NA ND 2,37E-07 NA YES N-Nitrosodimethylamine ug/l NA ND 2,37E-07 NA YES N-Nitrosodiphenylamine ug/l NA ND 2,37E-07 NA YES N-Propylbenzene ug/l NA ND 2,37E-07 NA YES N-Propylbenzene ug/l 5,000 120 2,37E-07 NA YES	Isopropylbenzene	ug/l	5.000	4	2.37E-07	9.48E-07	YES
Methylene Chloride ug/l 10.000 20 2.37E-07 4.74E-06 YES m-Xylene ug/l 5.000 48 2.37E-07 1.14E-05 YES Naphthalene ug/l 10.000 ND 2.37E-07 NA YES n-Butanol ug/l 10.000.000 21.0000 2.37E-07 A.98E-02 YES n-Butylbenzene ug/l 5.000 2 2.37E-07 NA YES N-Nitrosodimethylamine ug/l NA ND 2.37E-07 NA YES N-Nitrosodimethylamine ug/l NA ND 2.37E-07 NA YES N-Nitrosodiphenylamine ug/l NA ND 2.37E-07 NA YES N-Propylbenzene ug/l NA ND 2.37E-07 NA YES N-Propylbenzene ug/l 5.000 7 2.37E-07 NA YES N-Propylbenzene ug/l 5.000 120 2.37E-07 NA YES <td>m.p-Xylene</td> <td>ug/l</td> <td>5.000</td> <td>130</td> <td>2.37E-07</td> <td>3 08E-05</td> <td>YES</td>	m.p-Xylene	ug/l	5.000	130	2.37E-07	3 08E-05	YES
m-Xylene ug/l 5.000 48 2.37E-07 1.14E-05 YES Naphthalene ug/l 10.000 ND 2.37E-07 NA YES n-Butanol ug/l 1000.000 210000 2.37E-07 4.98E-02 YES n-Butylbenzene ug/l 5.000 2 2.37E-07 4.74E-07 YES N-Nitrosodimethylamine ug/l NA ND 2.37E-07 NA YES N-Nitrosodimethylamine ug/l NA ND 2.37E-07 NA YES N-Nitrosodiphenylamine ug/l NA ND 2.37E-07 NA YES N-Nitrosodiphenylamine ug/l NA ND 2.37E-07 NA YES N-Propylbenzene ug/l NA ND 2.37E-07 NA YES N-Propylbenzene ug/l 5.000 7 2.37E-07 NA YES Parathon ug/l 5.000 ND 2.37E-07 NA YES	Methoxychlor	ug/l	10.000	ND	2.37E-07	NA NA	YES
Naphthalene		ug/l	10.000	20	2.37E-07	4.74E-06	YES
n-Butanol ug/l 1000.000 210000 2.37E-07 4.98E-02 YES n-Butylbenzene ug/l 5.000 2 2.37E-07 4.74E-07 YES N-Nitrosodimethylamine ug/l NA ND 2.37E-07 NA YES N-Nitrosodimethylamine ug/l NA ND 2.37E-07 NA YES N-Nitrosodiphenylamine ug/l NA ND 2.37E-07 NA YES N-Nitrosodiphenylamine ug/l NA ND 2.37E-07 NA YES N-Nitrosodiphenylamine ug/l NA ND 2.37E-07 NA YES N-Propylbenzene ug/l 5.000 7 2.37E-07 1.66E-06 YES Parathion ug/l 5.000 120 2.37E-07 NA YES Parathion ug/l 5.000 ND 2.37E-07 NA YES Pentachlorophenol ug/l 5.000 ND 2.37E-07 NA YES	m-Xylene	ug/l	5.000	48	2.37E-07	1.14E-05	YES
N-Buylbenzene	Naphthalene	ug/l	10.000	ND	2.37E-07	NA NA	YES
Nitrobenzene ug/l NA ND 2.37E-07 NA YES	n-Butanol	ug/l	1000.000	210000	2.37E-07	4.98E-02	YES
N-Nitrosodimethylamine ug/l NA ND 2.37E-07 NA YES -N-Nitrosodin-propylamine ug/l 5.000 7 2.37E-07 1.66E-06 YES -N-Nylene ug/l 5.000 120 2.37E-07 2.84E-05 YES -N-Nylene ug/l 10.000 ND 2.37E-07 NA YES -N-Na YES -N-Na	n-Butylbenzene	ug/l	5.000	2	2.37E-07	4.74E-07	YES
N-Nitroso-di-n-propylamine ug/l NA ND 2.37E-07 NA YES -N-Nitrosodiphenylamine ug/l NA ND 2.37E-07 NA YES -N-Nitrosodiphenylamine ug/l 5.000 7 2.37E-07 1.66E-06 YES -N-Nitrosodiphenylamine ug/l 5.000 7 2.37E-07 1.66E-06 YES -N-Nylene ug/l 5.000 120 2.37E-07 2.84E-05 YES -N-Nylene ug/l 10.000 ND 2.37E-07 NA YES -N-Nylene ug/l 50.000 ND 2.37E-07 NA YES -N-Nylene ug/l NA ND 2.37E-07 NA YES -N-Nylene ug/l 5.000 1.3 2.37E-07 3.08E-07 YES -N-Nylene ug/l 5.000 ND 2.37E-07 6.64E-06 YES -N-Nylene ug/l 5.000 ND 2.37E-07 NA YES -N-Nylene ug/l 5.000 ND 2.37E-07 NA YES -N-Nylene ug/l 5.000 ND 2.37E-07 NA YES -N-Nylene ug/l 5.000 AB 2.37E-07 1.14E-05 YES -N-Nylene ug/l 5.000 1 2.37E-07 NA YES -N-Nylene ug/l 5.000 1 2.37E-07 NA YES -N-Nylene ug/l 5.000 1 2.37E-07 NA YES -N-Nylene ug/l 5.000 ND 2.37E-07 NA YES -N-Nylene ug/l 5.000 1 2.37E-07 NA YES -N-Nylene ug/l 5.000 ND 2.3			NA	ND			
N-Nitroso-di-n-propylamine ug/l NA ND 2.37E-07 NA YES	N-Nitrosodimethylamine	ua/l	NA	ND	2.37E-07	NA NA	YES
N-Nitrosodiphenylamine ug/l NA ND 2.37E-07 NA YES			NA	ND	2.37E-07	NA NA	YES
n-Propylbenzene ug/l 5.000 7 2.37E-07 1.66E-06 YES o-Xylene ug/l 5.000 120 2.37E-07 2.84E-05 YES Parathion ug/l 10.000 ND 2.37E-07 NA YES Pentachlorophenol ug/l 50.000 ND 2.37E-07 NA YES Phenolics ug/l 5.000 1.3 2.37E-07 NA YES Phenolics ug/l 5.000 2.37E-07 NA YES P-Isopropyltoluene ug/l 5.000 2.37E-07 6.64E-06 YES P-Isopropyltoluene ug/l 5.000 ND 2.37E-07 NA YES P-Isopropyltoluene ug/l 5.000 ND 2.37E-07 NA YES P-Isopropyltoluene ug/l 5.000 ND 2.37E-07 NA YES Polychlorinated Biphenyls(PCBs) ug/l 5.000 ND 2.37E-07 NA YES Pyrene		ug/l	NA	ND.	2.37E-07	NA NA	
o-Xylene ug/l 5.000 120 2.37E-07 2.84E-05 YES Parathion ug/l 10.000 ND 2.37E-07 NA YES Pentachlorophenol ug/l 50.000 ND 2.37E-07 NA YES Phenanthrene ug/l NA ND 2.37E-07 NA YES Phenolics ug/l 5.000 1.3 2.37E-07 3.08E-07 YES Phenolics ug/l 5.000 1.3 2.37E-07 3.08E-07 YES Phenolics ug/l 5.000 ND 2.37E-07 3.08E-07 YES Ploychlorinated Biphenyls(PCBs) ug/l 5.000 ND 2.37E-07 NA YES Pylene ug/l 5.000 ND 2.37E-07 1.4E-05 YES Pylene ug/l 5.000 48 2.37E-07 NA YES Sec-Butylbenzene ug/l 5.000 1 2.37E-07 NA YES Si		ug/l	5.000	7	2.37E-07	1.66E-06	YES
Parathion		ug/l	5.000	120	2.37E-07	2 84E-05	YES
Phenanthrene	Parathion	ug/l	10.000	ND	2 37E-07	NA NA	YES
Phenolics	Pentachlorophenol		50.000	ND	2.37E-07	NA NA	YES
p-IsopropyItoluene ug/I 5.000 28 2.37E-07 6.64E-06 YES Polychlorinated BiphenyIs(PCBs) ug/I 5.000 ND 2.37E-07 NA YES p-Xylene ug/I 5.000 48 2.37E-07 1.14E-05 YES Pyrene ug/I NA ND 2.37E-07 NA YES sec-ButyIbenzene ug/I 5.000 1 2.37E-07 3.08E-07 YES Silvex ug/I 5.000 ND 2.37E-07 3.08E-07 YES Styrene ug/I 5.000 ND 2.37E-07 NA YES tert-ButyIbenzene ug/I 5.000 ND 2.37E-07 NA YES Tetrachloroethene ug/I 5.000 ND 2.37E-07 1.42E-06 YES Total pdforuran ug/I 7.000 15000 2.37E-07 1.04E-04 YES Toxaphene ug/I 5.000 Ad 2.37E-07 NA YES	Phenanthrene	ug/l	NA NA	ND	2.37E-07	NA NA	YES
Polychlorinaled Biphenyls(PCBs) ug/l 5.000 ND 2.37E-07 NA YES	Phenolics	ug/l	5.000	1.3	2.37E-07	3 08E-07	YES
Polychlorinated Biphenyls(PCBs) ug/l 5.000 ND 2.37E-07 NA YES -Xylene	p-Isopropyltoluene	ug/l	5.000	28	2.37E-07	6.64E-06	YES
Pyrene ug/l NA ND 2.37E-07 NA YES sec-Butylbenzene ug/l 5.000 1 2.37E-07 2.37E-07 YES Silvex ug/l 2.000 1.3 2.37E-07 3.08E-07 YES Styrene ug/l 5.000 ND 2.37E-07 NA YES tert-Butylbenzene ug/l 5.000 ND 2.37E-07 NA YES Tetrachloroethene ug/l 5.000 6 2.37E-07 1.42E-06 YES Tetrahydrofuran ug/l 7.000 15000 2.37E-07 1.04E-06 YES Toluene ug/l 5.000 440 2.37E-07 1.04E-04 YES Toxaphene ug/l 10.000 ND 2.37E-07 1.04E-04 YES trans-1,2-Dichloroethene ug/l 5.000 ND 2.37E-07 NA YES trans-1,3-Dichloroethene ug/l 5.000 ND 2.37E-07 NA YES		ug/l	5.000	ND	2.37E-07	NA	YES
séc-Butylbenzene ug/l 5.000 1 2.37E-07 2.37E-07 YES Silvex ug/l 2.000 1.3 2.37E-07 3.08E-07 YES Styrene ug/l 5.000 ND 2.37E-07 NA YES tert-Butylbenzene ug/l 5.000 ND 2.37E-07 NA YES Tetrachloroethene ug/l 5.000 6 2.37E-07 1.42E-06 YES Tetrahydrofuran ug/l 7.000 15000 2.37E-07 3.56E-03 YES Toxaphene ug/l 5.000 440 2.37E-07 1.04E-04 YES Toxaphene ug/l 10.000 ND 2.37E-07 NA YES Trans-1,2-Dichloroethene ug/l 5.000 ND 2.37E-07 NA YES trans-1,4-Dichloropropene ug/l 5.000 ND 2.37E-07 NA YES trans-1,4-Dichloro-2-butene ug/l 5.000 17 2.37E-07 4.03E-06	p-Xylene	ug/l	5.000	48	2.37E-07	1 14E-05	YES
Silvex ug/l 2.000 1.3 2.37E-07 3.08E-07 YES Styrene ug/l 5.000 ND 2.37E-07 NA YES tert-Butylbenzene ug/l 5.000 ND 2.37E-07 NA YES Tetrachloroethene ug/l 5.000 6 2.37E-07 1.42E-06 YES Tetrahydrofuran ug/l 7.000 15000 2.37E-07 3.56E-03 YES Tokuene ug/l 5.000 440 2.37E-07 1.04E-04 YES Toxaphene ug/l 1.000 ND 2.37E-07 NA YES trans-1,2-Dichloroethene ug/l 5.000 ND 2.37E-07 NA YES trans-1,3-Dichloropropene ug/l 5.000 ND 2.37E-07 NA YES Trichloroethene ug/l 5.000 17 2.37E-07 4.03E-06 YES Trichloroethene ug/l 5.000 ND 2.37E-07 2.13E-06 YES <td></td> <td></td> <td>NA</td> <td>ND</td> <td>2.37E-07</td> <td>NA NA</td> <td></td>			NA	ND	2.37E-07	NA NA	
Silvex ug/l 2.000 1.3 2.37E-07 3.08E-07 YES Styrene ug/l 5.000 ND 2.37E-07 NA YES tetr-Butylbenzene ug/l 5.000 ND 2.37E-07 NA YES Tetrachloroethene ug/l 5.000 6 2.37E-07 1.42E-06 YES Tetrahydrofuran ug/l 7.000 15000 2.37E-07 3.56E-03 YES Toluene ug/l 5.000 440 2.37E-07 1.04E-04 YES Toxaphene ug/l 10.000 ND 2.37E-07 NA YES trans-1,2-Dichloroethene ug/l 5.000 ND 2.37E-07 NA YES trans-1,3-Dichloropropene ug/l 5.000 ND 2.37E-07 NA YES Trichloroethene ug/l 5.000 ND 2.37E-07 4.03E-06 YES Trichloroethene ug/l 10.000 9 2.37E-07 2.13E-06 YES <td>sec-Butylbenzene</td> <td>ug/l</td> <td>5.000</td> <td>1</td> <td>2.37E-07</td> <td>2.37E-07</td> <td>YES</td>	sec-Butylbenzene	ug/l	5.000	1	2.37E-07	2.37E-07	YES
tert-Butylbenzene ug/l 5.000 ND 2.37E-07 NA YES Tetrachloroethene ug/l 5.000 6 2.37E-07 1.42E-06 YES Tetrahydrofuran ug/l 7.000 15000 2.37E-07 3.56E-03 YES Toluene ug/l 5.000 440 2.37E-07 1.04E-04 YES Toxaphene ug/l 10.000 ND 2.37E-07 NA YES trans-1,2-Dichloroethene ug/l 5.000 ND 2.37E-07 NA YES trans-1,4-Dichloropropene ug/l 5.000 ND 2.37E-07 NA YES trans-1,4-Dichloro-2-butene ug/l 5.000 17 2.37E-07 4.03E-06 YES Trichloroethene ug/l 10.000 9 2.37E-07 2.13E-06 YES Trichlorofluoromethane ug/l 5.000 ND 2.37E-07 NA YES Vinyl Acetate ug/l 10.000 ND 2.37E-07 <t< td=""><td></td><td>ug/l</td><td>2.000</td><td>1.3</td><td>2.37E-07</td><td>3.08E-07</td><td>YES</td></t<>		ug/l	2.000	1.3	2.37E-07	3.08E-07	YES
tert-Butylbenzene ug/l 5.000 ND 2.37E-07 NA YES Tetrachloroethene ug/l 5.000 6 2.37E-07 1.42E-06 YES Tetrahydrofuran ug/l 7.000 15000 2.37E-07 3.56E-03 YES Toluene ug/l 5.000 440 2.37E-07 1.04E-04 YES Toxaphene ug/l 10.000 ND 2.37E-07 NA YES trans-1,2-Dichloroethene ug/l 5.000 ND 2.37E-07 NA YES trans-1,3-Dichloropropene ug/l 5.000 ND 2.37E-07 NA YES trans-1,4-Dichloro-2-butene ug/l 5.000 17 2.37E-07 4.03E-06 YES Trichloroethene ug/l 10.000 9 2.37E-07 2.13E-06 YES Trichlorofluoromethane ug/l 5.000 ND 2.37E-07 NA YES Vinyl Acetate ug/l 10.000 ND 2.37E-07 <t< td=""><td>Styrene</td><td></td><td>5.000</td><td>ND</td><td>2.37E-07</td><td>NA NA</td><td>YES</td></t<>	Styrene		5.000	ND	2.37E-07	NA NA	YES
Tetrachloroethene ug/l 5.000 6 2.37E-07 1.42E-06 YES Tetrahydrofuran ug/l 7.000 15000 2.37E-07 3.56E-03 YES Toluene ug/l 5.000 440 2.37E-07 1.04E-04 YES Toxaphene ug/l 10.000 ND 2.37E-07 NA YES trans-1,2-Dichloroethene ug/l 5.000 ND 2.37E-07 NA YES trans-1,3-Dichloropropene ug/l 5.000 ND 2.37E-07 NA YES trans-1,4-Dichloro-2-butene ug/l 5.000 17 2.37E-07 4.03E-06 YES Trichloroethene ug/l 10.000 9 2.37E-07 2.13E-06 YES Trichlorofluoromethane ug/l 5.000 ND 2.37E-07 NA YES Vinyl Acetate ug/l 10.000 ND 2.37E-07 NA YES	tert-Butvibenzene		5.000	ND	2.37E-07	NA NA	YES
Toluene ug/l 5.000 440 2.37E-07 1.04E-04 YES Toxaphene ug/l 10.000 ND 2.37E-07 NA YES trans-1,2-Dichloroethene ug/l 5.000 ND 2.37E-07 NA YES trans-1,3-Dichloropropene ug/l 5.000 ND 2.37E-07 NA YES trans-1,4-Dichloro-2-butene ug/l 5.000 17 2.37E-07 4.03E-06 YES Trichloroethene ug/l 10.000 9 2.37E-07 2.13E-06 YES Trichlorofluoromethane ug/l 5.000 ND 2.37E-07 NA YES Vinyl Acetate ug/l 10.000 ND 2.37E-07 NA YES	Tetrachloroethene	ug/l	5.000	6	2.37E-07	1.42E-06	
Toluene ug/l 5.000 440 2.37E-07 1.04E-04 YES Toxaphene ug/l 10.000 ND 2.37E-07 NA YES trans-1,2-Dichloroethene ug/l 5.000 ND 2.37E-07 NA YES trans-1,3-Dichloropropene ug/l 5.000 ND 2.37E-07 NA YES trans-1,4-Dichloro-2-butene ug/l 5.000 17 2.37E-07 4.03E-06 YES Trichloroethene ug/l 10.000 9 2.37E-07 2.13E-06 YES Trichlorofluoromethane ug/l 5.000 ND 2.37E-07 NA YES Vinyl Acetate ug/l 10.000 ND 2.37E-07 NA YES	Tetrahydrofuran	ug/l	7.000	15000	2.37E-07	3.56E-03	YES
Toxaphene ug/l 10.000 ND 2.37E-07 NA YES trans-1,2-Dichloroethene ug/l 5.000 ND 2.37E-07 NA YES trans-1,3-Dichloropropene ug/l 5.000 ND 2.37E-07 NA YES trans-1,4-Dichloro-2-butene ug/l 5.000 17 2.37E-07 4.03E-06 YES Trichloroethene ug/l 10.000 9 2.37E-07 2.13E-06 YES Trichlorofluoromethane ug/l 5.000 ND 2.37E-07 NA YES Vinyl Acetate ug/l 10.000 ND 2.37E-07 NA YES			5.000	440			
trans-1,2-Dichloroethene ug/l 5.000 ND 2.37E-07 NA YES trans-1,3-Dichloropropene ug/l 5.000 ND 2.37E-07 NA YES trans-1,4-Dichloro-2-butene ug/l 5.000 17 2.37E-07 4.03E-06 YES Trichloroethene ug/l 10.000 9 2.37E-07 2.13E-06 YES Trichlorofluoromethane ug/l 5.000 ND 2.37E-07 NA YES Vinyl Acetate ug/l 10.000 ND 2.37E-07 NA YES	Toxaphene		10.000	ND	2 37E-07	NA NA	YES
trans-1,3-Dichloropropene ug/l 5.000 ND 2.37E-07 NA YES trans-1,4-Dichloro-2-butene ug/l 5.000 17 2.37E-07 4.03E-06 YES Trichloroethene ug/l 10.000 9 2.37E-07 2.13E-06 YES Trichlorofluoromethane ug/l 5.000 ND 2.37E-07 NA YES Vinyl Acetate ug/l 10.000 ND 2.37E-07 NA YES		ug/l	5.000	ND		NA	YES
trans-1,4-Dichloro-2-butene ug/l 5.000 17 2.37E-07 4.03E-06 YES Trichloroethene ug/l 10.000 9 2.37E-07 2.13E-06 YES Trichlorofluoromethane ug/l 5.000 ND 2.37E-07 NA YES Vinyl Acetate ug/l 10.000 ND 2.37E-07 NA YES			5.000	ND			
Trichloroethene ug/l 10.000 9 2.37E-07 2.13E-06 YES Trichlorofluoromethane ug/l 5.000 ND 2.37E-07 NA YES Vinyl Acetate ug/l 10.000 ND 2.37E-07 NA YES			5.000	17			
Trichlorofluoromethane ug/l 5.000 ND 2.37E-07 NA YES Vinyl Acetate ug/l 10.000 ND 2.37E-07 NA YES							
Vinyl Acetate ug/l 10.000 ND 2.37E-07 NA YES							
Vinyl Chloride	Vinyl Chloride		2.000	ND		NA NA	
Xylenes (Total) ug/l 5.000 360 2.37E-07 8.53E-05 YES							

Notes: NA - No AGQS Value ND - Not Detected

Table 6a - Northern Unit Confirmed AGQS Exceedences

Table 6A Northern Unit Confirmed AGQS/MAPC Exceedences First Quarter 2008 through Third Quarter 2012

Winnebago Landfill Permit Renewal Application

Well ID	Parameter	Units	GW List	AGQS	1stQtr08	1stQtr08re	2ndQtr08	3rdQtr08	4thQtr08	1stQtr09	2ndQtr09	2ndQtr09re	3rdQtr09	4thQtr09	1stQtr10	2ndQtr10	3rdQtr10	4thQtr10	1stQtr11	2ndQtr11	3rdQtr11	4thQtr11	1stQtr12	2ndQtr12	3rdQtr12
G13D	Sulfate, Dissolved	mg/l	G1	360	420	420	390	190	170	570	580		70	280	310	270	360	260	190	280	300	230	170	150	170
G13D	Acetone	ug/l	G2	10			< 10		< 10		18	< 5		< 5		13		8.6		< 5		< 5		< 5	
G09D	Benzene	ug/l	G2	2.8			2		2		2.3	< 1	THE LIBERT	1		1.9		< 1		1.2		2.5		3.2	
G13D	Benzene	ug/l	G2	2.8			< 1		< 1		< 1			< 1		< 1		< 1	TTD Dream	1.7		3.7	2.7	2.2	TO A REST
G13S	Benzene	ug/l	G2	2.8			< 1	THE AREA	< 1		< 1		THE EDGS	1.2	< 1	1.6		4.1		3.7		4.7		6.1	
G09D	Chlorobenzene	ug/l	G2	5			5		5		8.8	< 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4		8.8		11		8.5		4.9		10	
G09M	Chlorobenzene	ug/l	G2	5			3		2.2		< 1		THE E	1.4	3.2	< 1		5.9	5.7	3.3		6.6		3.8	Value (E)
G13D	Chlorobenzene	ug/l	G2	5			< 1		< 1		< 1			< 1		1.7		4		6.1		14	DE-151 FO	7.8	
G13S	Chlorobenzene	ug/l	G2	5			< 1		< 1	Bry Landon	2.5	< 1		4.1	1.2	5.9		24		23		29		34	
G20D	cis-1,2-Dichloroethene	ug/l	G2	5			10		19	13	8.8	8		13	11	10		P 11		7.4	1.54.00	7.1		2.5	
G33D	pH (field)	units	G1	5.4 - 8.1	6.97		6.77	7.56	7.81	7.97	8.18		7.58	7.52	7.12	7.61	7.76		7.14	7.78	7.09	8.48	8.16	6.94	7.58
G33S	pH (field)	units	G1	5.4 - 8.1	6.88		6.75	7.94	8.11	7.85	8.08		7.8	7.41	7.26	7.66	7.84		7.2	7.96	7.4	8.16	9	7.01	7.3

Notes:
A highlighted cell indicates an exceedence of the AGQS/MAPC value.
All confirmed AGQS/MAPC exceedences from first quarter 2008 through third quarter 2012 were addressed in accordance with Permit Condition VIII.15 (Modification No. 1

Table 6b - Northern Unit Confirmed Exceedences (Condition Viii.13)

Table 6B Northern Unit Confirmed Exceedences First Quarter 2008 through Third Quarter 2012

Well ID	Parameter	Units	GW Lis	Application	AGQS	1stQtr08	1stQtr08re	2ndQtr08	3rdQtr08	4thQtr08	1stQtr09	2ndQtr0	2nd(Qtr09re	3rdQtr09	4thQt	r09	1stQtr10	2ndQtr10	3rdQtr10	4thQtr10	1stQtr11	2ndQtr11	3rdQtr11	4thQtr11	1stQtr12	2ndQtr12	3rdQtr12
G20D	1,1,1-Trichloroethane	ug/l	G2	2010-373	12			1		< 1		< 1				<	1	Eller Eller	1.2		P 1		< 1		1.2		< 1	STATE OF THE PARTY
G20D	1,1-Dichloroethane	ug/i	G2	2010-152	31			2		4	2.3	1.5					3.4	2.4	2.5		P 2.4		1.8		2		< 1	
G51S	1,1-Dichloroethane	ug/l	G2	2010-373	31							< 1				<	1		1.3		1.7		1.2		T. Page 1			
G09D	1,2-Dichlorobenzene	ug/l	G2	2010-373				< 1		< 1		1.6	<	1		<	1		2		< 1	5 3 Y/L	1.9		1.8		2	
G13D	Acetone	ug/l	G2	2010-373		B v links		< 10		< 10		18	The second second	5		<	5		13		8.6		< 5		< 5		< 5	Links was
G09D	Benzene	ug/l	G2	2010-373	2.8		TEST AS	2		2		2.3	<	1	DE TRUE		1		1.9	APT AND	< 1		1.2	The street	2.5	Mary Orall	3.2	
G13D	Benzene	ug/l	G2	2012-189				< 1		< 1		< 1			Line	<	1	5	< 1		< 1		1.7		3.7	2.7	2.2	LRZ MAR
G13S	Benzene	ug/l	G2	2010-373				< 1		< 1		< 1		1-4			1.2	< 1	1.6	Police -	4.1		3.7		4.7		6.1	
G51S	Benzene	ug/l	G2	2010-373								1.2				<	1		1.1		1.8		2.3	PAULDEAU				
G09D	Chlorobenzene	ug/l	G2	2010-373				5		5		8.8	<	1			4		8.8		11		8.5		4.9	A. LE J	10	
G09M	Chlorobenzene	ug/l	G2	2011-118	5			3		2.2		< 1					1.4	3.2	< 1	La Maria Mili	5.9	5.7	3.3		6.6		3.8	A REAL PROPERTY.
G13D	Chlorobenzene	ug/l	G2	2010-373				< 1		< 1		< 1				<	1		1.7		4		6.1		14		7.8	
G13S	Chlorobenzene	ug/l	G2	2010-373	5			< 1	A STATE OF THE PARTY OF THE PAR	< 1		2.5		1			4.1	1.2	5.9		24		23		29		34	
G51S	Chlorobenzene	ug/l	G2	2010-373					Printer 1	EL ST TO B		2.9				<	1		1.1	R. SIS	3.7		2.9		MATERIAL SERVICES			
G03M	cis-1,2-Dichloroethene	ug/l	G2	2010-152				1		1		1.5		1.2		<	1		< 1		< 1		< 1		< 1		< 1	
G20D	cis-1,2-Dichloroethene	ug/l	G2	2010-152	5			10		19	13	8.8		8			13	11	10		P 11		7.4		7.1		2.5	
G41S	cis-1,2-Dichloroethene	ug/l	G2	2010-373	5			2		2		1.8					1.1		1.2		< 1		< 1		< 1		< 1	
G51S	cis-1,2-Dichloroethene	ug/l	G2	2011-118	5		TELLIN.					< 1			Establish .	<	1		< 1		1.9	1.2	< 1					
R03S	cis-1,2-Dichloroethene	ug/l	G2	2011-118	5			1		2	1.6	1.6					1.5		< 1		1.5	1.1	< 1		< 1		< 1	
R39S	cis-1,2-Dichloroethene	ug/l	G2	2011-118	5		The state of					< 1				<	1		< 1		1.2	1.4	1.1				< 1	
G33D	pH (field)	units	G1	2012-189	5.4 - 8.	1 6.97	I LOLL TO	6.77	7.56	7.81	7.97	8.1	8		7.58		7.52	7.12	7.61	7.76		7.14	7.78	7.09	8.48	8.16	6.94	7.58
G33S	pH (field)	units	G1	2012-189	5.4 - 8.	1 6.88		6.75	7.94	8.11	7.85	8.0	В		7.8		7.41	7.26	7.66	7.84	GAR STAKE	7.2	7.96	7.4	8.16	9	7.01	7.3
G13D	Phenolics	ug/l	G2	2010-152	100	< 5		8.5	< 5	< 5		18		16		<	5		49		11		< 5	Marie Con	< 5	Particular in	< 5	10 10 10 10 10
G52S	Phenolics	ug/l	G2	2010-373	100	(7		DIE I DE S				Complete S				<	5		17		< 5		< 5		< 5		< 5	
R39S	Phenolics	ug/l	G2	2010-373	100	A SAME						< 5				<	5		16		< 5		< 5				< 5	
G13D	Sulfate, Dissolved	mg/l	G1	2010-152	360	420	420	390	190	170	570	580)		70		280	310	270	360	260	190	280	300	230	170	150	170
G03M	Tetrachloroethene	ug/l	G2	2010-152	26			1		2	1.4	1.4				<	1		1.4	The second	4.2		< 1		1.3		1.7	1 7 7 7 7
G20D	Tetrachloroethene	ug/l	G2	2010-373	26	O Charles		< 1		1		1.2	<	1	the ball of the	<	1		1.2		P 3.6	A Lands	1.1		1.1		1.4	
G41D	Tetrachloroethene	ug/l	G2	2010-152	26			< 1		1		1.4		1.3		- 11	1.4		1.4		< 1	VI SUPPLIES	2.1		< 1		1.1	
R03S	Tetrachloroethene	ug/l	G2	2012-459	26			< 1		1		< 1			DOLLAR VERY		1		< 1	and the same	3.6	< 1	1.2		< 1		1.3	1.1
G20D	Trichloroethene	ug/l	G2	2010-152	66			3		4	3.6	3.4			THE PLANE	The second	2.7		3		P 2.5		2.2		2.1		1.4	

Well ID	Parameter	Units	List	18	tQtr08	2r	ndQtr08	4t	hQtr08	2ndQtr09		4thQtr09	2ndQtr10	4thQtr10	2ndQtr11	4thQtr11
L313	Alkalinity, Bicarbonate as CaCO3	mg/L	L1				13000		9200					15000		
L315	Alkalinity, Bicarbonate as CaCO3	mg/L	L1							4300					2500	
L317	Alkalinity, Bicarbonate as CaCO3	mg/L	L1				5800						8000			
L318	Alkalinity, Bicarbonate as CaCO3	mg/L	L1									6700				8600
L313	Aluminum, total	ug/L	L1				0.25		0.16					5		
L315	Aluminum, total	ug/L	L1							0.16					0.22	
L317	Aluminum, total	ug/L	L1				0.12						1.8	l		
L318	Aluminum, total	ug/L	L1									0.66				0.4
L313	Antimony, total	ug/L	L1				0.1		0.075					0.036		
L315	Antimony, total	ug/L	L1							0.034		·			0.013	
L317	Antimony, total	ug/L	L1				0.015						0.02			
L318	Antimony, total	ug/L	L1			L					İ	0.013				0.017
L313	Arsenic, total	ug/L	L1		1.7		1		0.73					0.24		
L315	Arsenic, total	ug/L	L1							0.46					0.14	
L317	Arsenic, total	ug/L	L1		1.8		0.93						0.38			
L318	Arsenic, total	ug/L	L1									0.34				0.59
L313	Barium, total	ug/L	L1		0.56	<u> </u>	0.35		0.51					0.3	<u> </u>	
L315	Barium, total	ug/L	L1]						0.32					0.3	
L317	Barium, total	ug/L	L1		0.83		0.43						0.84			
L318	Barium, total	ug/L	L1									0.77				0.82
L313	Beryllium, total	ug/L	L1			<	0.002	<	0.001					< 0.001		
L315	Beryllium, total	ug/L	L1			L				< 0.001					< 0.001	
L317	Beryllium, total	ug/L	L1			<	0.002						< 0.001			
L318	Beryllium, total	ug/L	L1			L.		L			<	0.001				< 0.001
L313	Biochemical Oxygen Demand	mg/L	L1	ــــــ	570	<u> </u>	650		550					1000		
L315	Biochemical Oxygen Demand	mg/L	L1	ļ						190					65	
L317	Biochemical Oxygen Demand	mg/L	L1	Н	630	<u> </u>	480						260		1	
L318	Biochemical Oxygen Demand	mg/L	L1			<u> </u>					_	270				250
L313	Boron, total	ug/L	L1				6.7		15					15		
L315	Boron, total	ug/L	L1			<u> </u>				4.1					2	
L317	Boron, total	ug/L	L1			<u> </u>	12				_		11			
L318	Boron, total	ug/L	L1								_	11			ļ	11
L313	Cadmium, total	ug/L	L1	<	0.002	<	0.002	<	0.001		_			0.0068	<u> </u>	
L315	Cadmium, total	ug/L	L1	<u> </u>		_				< 0.001	_				< 0.001	<u> </u>
L317	Cadmium, total	ug/L	L1	<	0.002	<	0.002						0.0013			
L318	Cadmium, total	ug/L	L1	ļ		<u> </u>				ļ	<u> </u>	0.001	<u> </u>			< 0.001
L313	Calcium, total	mg/L	L1	ļ			7.2		24	<u> </u>				42	<u> </u>	
L315	Calcium, total	mg/L	L1	 		<u> </u>		ļ		50					130	
L317	Calcium, total	mg/L	L1			<u> </u>	16			ļ	4—		60			ļ
L318	Calcium, total	mg/L	L1	₩		<u> </u>		<u> </u>		<u> </u>	_	44	ļ		 	43
L313	Total Organic Carbon	mg/L	L1	<u> </u>		├	2500		1000					4700	 	
L315	Total Organic Carbon	mg/L	L1			 				570	_				250	-
L317	Total Organic Carbon	mg/L	L1	<u> </u>		<u> </u>	1500			ļ			1300		_	ļ
L318	Total Organic Carbon	mg/L	L1	_		<u> </u>				ļ		1200				1300
L313	Chemical Oxygen Demand	mg/L	L1	<u> </u>	8900	 	8300		5100		_			11000	 -:	<u> </u>
L315	Chemical Oxygen Demand	mg/L	L1	 		<u> </u>				2000					870	
L317	Chemical Oxygen Demand	mg/L	L1		6000	<u> </u>	5200				-	FC.00	5800		-	
L318	Chemical Oxygen Demand	mg/L	L1	<u> </u>		<u> </u>				[5200			<u> </u>	5800

Well ID	Parameter	Units	List	1stQtr08	2ndQtr08	4thQtr08	2ndQtr09	4thQtr09	2ndQtr10	4thQtr10	2ndQtr11	4thQtr11
L313	Chloride, total	mg/L	L1		5.7	4400				7600		
L315	Chloride, total	mg/L	L1				2600				3.3	i
L317	Chloride, total	mg/L	L1		3100				4500			
L318	Chloride, total	mg/L	L1					6400				4500
L313	Chromium, total	ug/L	L1	0.88	0.6	0.49				0.93		
L315	Chromium, total	ug/L	L1				0.26				0.15	-
L317	Chromium, total	ug/L	L1	0.22	0.12				0.36			
L318	Chromium, total	ug/L	L1					0.41				0.37
L313	Cobalt, total	ug/L	L1		0,084	0.1				0.13		
L315	Cobalt, total	ug/L	L1			1	0.03				0,013	
L317	Cobalt, total	ug/L	L1		0.054	1			0.09			
L318	Cobalt, total	ug/L	L1			T		0.1				0.098
L313	Copper, total	ug/L	L1	0.078	0.044	0.073	·			0.29		
L315	Copper, total	ug/L	L1				0.019				0.015	
L317	Copper, total	ug/L	L1	0.062	0.03	<u> </u>			0.078			
L318	Copper, total	ug/L	L1			T.	1	0.037		-		0.11
L313	Cyanide, total	mg/L	L1	0.0076	0.0058	0.02				P 0.019		
L315	Cyanide, total	mg/L	L1				< 0.005			''	< 0.005	
L317	Cyanide, total	mg/L	L1	0.019	< 0.005	-			0.0096		·	
L318	Cyanide, total	mg/L	L1			-		< 0.005				0.024
L313	Fecal Coliform	/100mL	L1	< 10	< 10	< 10				< 10		
L315	Fecal Coliform	/100mL	L1	 	<u> </u>	†	< 10	 			< 10	
L317	Fecal Coliform	/100mL	L1	< 10	< 10				< 10	-	<u> </u>	_
L318	Fecal Coliform	/100mL	L1	1	, <u>,,,</u>	<u> </u>		< 10				< 10
L313	Fluoride, total	mg/L	L1	0.99	1.1	1.2				1.3		, · · · ·
L315	Fluoride, total	mg/L	L1	-			0.32			1.2	< 2.5	
L317	Fluoride, total	mg/L	L1	1.6	1,6		0.02		1.2			-
L318	Fluoride, total	mg/L	L1	1			 	1.4				< 2.5
L313	Iron, total	ug/L	L1	5.6	4.6	2.9	 -			20		
L315	Iron, total	ug/L	L1	3.0	4.0	2.5	2.4	 			1.9	_
L317	Iron, total	ug/L	L1	8	3.1		2.7		12		1.5	
L318	Iron, total	ug/L	L1	-	J.1	+		5.6	12			9.6
L313	Lead, total	ug/L	L1	0.023	0.012	0.0044	-	3.0		0.28	-	- 5.5
L315	Lead, total	ug/L	L1	0.023	0.012	0.0044	0.0026			0.20	0.0036	
L317	Lead, total	1 -	L1	0.012	0.0049		0.0020	-	0.039		0.0030	
		ug/L	L1	0.012	0.0049	 		0.013	0.039			0.0074
L318	Lead, total	ug/L	L1	 	20	63		0.013		47	<u> </u>	0.0074
L313	Magnesium, total	mg/L	L1		20	03	96			**/	100	
L315	Magnesium, total	mg/L		 	37	+	90		00		100	
L317	Magnesium, total	mg/L	L1	 	3/	 	 	l 00	96		 	72
L318	Magnesium, total	mg/L	L1	0.005	0.011	0.000	 	96	<u> </u>	0.05		73
L313	Manganese, total	ug/L	L1	0.025	0.014	0.032	0.000	1		0.25	0.064	
L315	Manganese, total	ug/L	L1	0.000		+-	0.022		0.4:		0.064	
L317	Manganese, total	ug/L	L1	0.068	0.036		 		0.11			
L318	Manganese, total	ug/L	L1			 		0.055				0.065
L313	Mercury, total	ug/L	L1	0.00047	< 0.0004	< 0.0002		ļ		0.0007		<u> </u>
L315	Mercury, total	ug/L	L1			ļ	0.001	ļ			0.00046	
_L317	Mercury, total	ug/L	L1	0.00057	< 0.0004	-			0.0019			
L318	Mercury, total	ug/L	L1		l			0.00067				0.0012

Well ID	Parameter	Units	List	1stQtr08	2ndQtr08	4thQtr08	2ndQtr09	4thQtr09	2ndQtr10	4thQtr10	2ndQtr11	4thQtr11
L313	Nickel, total	ug/L	L1	0.93	0.6	0.44				0.95		
L315	Nickel, total	ug/L	L1				0.12				0.075	
L317	Nickel, total	ug/L	L1	0.35	0.18				0.38			
L318	Nickel, total	ug/L	L1					0.46				0.39
L313	Nitrate as N, total	mg/L	L1		4.9	3.6				< 0.2		
L315	Nitrate as N, total	mg/L	L1				< 0.02				< 0.2	
L317	Nitrate as N, total	mg/L	L1		< 0.02				< 0.5			
L318	Nitrate as N, total	mg/L	L1					< 0.5				< 0.2
L313	Ammonia as N, total	mg/L	L1	4500	4500	2700				3700		
L315	Ammonia as N, total	mg/L	L1				1300				470	
L317	Ammonia as N, total	mg/L	L1	1800	1700				1700			
L318	Ammonia as N, total	mg/L	L1					1900				
L313	pH	s.u.	L1	7.92		7.7		-		7.92		
L315	pH	s.u.	L1								7.17	
L317	pH	s.u,	L1	7.44						_		
L318	pH	s.u.	L1			1		7.65			7.68	8.34
L313	Phosphorus, total	mg/L	L1	24	21	22				20		
L315	Phosphorus, total	mg/L	L1			1	6.2			-	4.6	
L317	Phosphorus, total	mg/L	L1	19	10		 		17			
L318	Phosphorus, total	mg/L	L1					17				21
L313	Potassium, total	mg/L	L1		460	650	1			1100	-	
L315	Potassium, total	mg/L	L1				250				100	· · · · · · · · · · · · · · · · · · ·
L317	Potassium, total	mg/L	L1		230		1		750		1-	
L318	Potassium, total	mg/L	L1					870				720
L313	Selenium, total	ug/L	L1		0.054	0.064		1		0.12		
L315	Selenium, total	ug/L	L1			İ	0.026				0.036	
L317	Selenium, total	ug/L	L1		0.022		 		0.093			
L318	Selenium, total	ug/L	L1					0.15				0.23
L313	Silver, total	ug/L	L1	< 0.01	< 0.01	< 0.005				< 0.005		-
L315	Silver, total	ug/L	L1		_		< 0.005				< 0.005	
L317	Silver, total	ug/L	L1	< 0.01	< 0.01			<u> </u>	< 0.005			
L318	Silver, total	ug/L	L1	1				< 0.005				< 0.005
L313	Sodium, total	mg/L	L1		1600	2600				3500		
L315	Sodium, total	mg/L	L1			<u> </u>	860				390	
L317	Sodium, total	mg/L	L1		1000				2600			
L318	Sodium, total	mg/L	L1					3000				2700
L313	Total Dissolved Solids	mg/L	L1	12000	14000	11000				21000		
L315	Total Dissolved Solids	mg/L	L1	1	1	1	4600	1		1	2400	
L317	Total Dissolved Solids	mg/L	L1	7300	8300	1	1		11000		-:	
L318	Total Dissolved Solids	mg/L	L1	1	1			11000	t	<u> </u>	 	12000
L313	Total Suspended Solids	mg/L	L1	12	76	19	<u> </u>	1	 	1600		1.2550
L315	Total Suspended Solids	mg/L	L1	- 	 '	 	21	1		1.550	22	
L317	Total Suspended Solids	mg/L	L1	74	41		 		59	1		t
L318	Total Suspended Solids	mg/L	<u>L1</u>	 	''		 	62	 	·		39
L313	Specific Conductance	umhos/cm	L1	7810		4350				15830		- 33
L315	Specific Conductance	umhos/cm	L1	70.0	-	4000		<u> </u>		10000	6140	
L317	Specific Conductance	umhos/cm	L1	8530	1	 	 	-	1	1	0170	
L318	Specific Conductance	umhos/cm	L1	3330	 	 	 	18000			6860	19000

Well ID	Parameter	Units	List	1stQtr08	2nd	dQtr08	4thQtr0	8	2ndQtr09	4th	Qtr09	2nc	IQtr10	4th	Qtr10	2nd	dQtr11	4tl	hQtr11
L313	Sulfate, total	mg/L	L1			2.7	30	6							9				
L315	Sulfate, total	mg/L	L1						3.4							<	10		
L317	Sulfate, total	mg/L	L1		<	5							19						
L318	Sulfate, total	mg/L	L1								2.6							<	10
L313	Thallium, total	ug/L	L1		<	0.002	< 0.0	01						<	0.001			T	
L315	Thallium, total	ug/L	L1						< 0.001					1		<	0.001	\vdash	
L317	Thallium, total	ug/L	L1		<	0.002						<	0.001						
L318	Thallium, total	ug/L	L1							1	0.0014					1		<	0.001
L313	Tin, total	ug/L	L1			0.093	0.0	94		1					0.37			1	
L315	Tin, total	ug/L	L1	Î.					< 0.06	i				1		<	0.06	1	
L317	Tin, total	ug/L	L1		<	0.06				i			0.19	1		İ			
L318	Tin, total	ug/L	L1								250							<	0.06
L313	Vanadium, total	ug/L	L1	1		0.063								İ	0.092			\vdash	
L315	Vanadium, total	ug/L	L1						0.032								0.0054	T	
L317	Vanadium, total	ug/L	L1			0.035							0.1	i -		T	-	1	
L318	Vanadium, total	ug/L	L1								0.062			i		l I		1	0.073
L313	Zinc, total	ug/L	L1	0.13		0.032	0.0	36							99	†		t	
L315	Zinc, total	ug/L	L1			_			0.058				_	· ·	-	1	0.026	+-	
L317	Zinc, total	ug/L	L1	0.26		0.079							0.45	1				†	
L318	Zinc, total	ug/L	L1								0.13	i –	_					†	0.067
L313	1,1,1,2-Tetrachloroethane	ug/L	L1		<	200	< 1							<	5			+	
L315	1,1,1,2-Tetrachloroethane	ug/L	L1											Ì .		<	50	\vdash	
L317	1,1,1,2-Tetrachloroethane	ug/L	L1		<	200				1		P<	1			 		+	
L318	1,1,1,2-Tetrachloroethane	ug/L	L ₁						·	<	1			 				 	50
L313	1.1.1-Trichloroethane	ug/L	L1		<	200	< 1	1		†				<	5			_	
L315	1,1,1-Trichloroethane	ug/L	L1							1				1		<	50	t	
L317	1,1,1-Trichloroethane	ug/L	L1	_	<	200						P<	1	· · ·				t	
L318	1.1.1-Trichloroethane	ug/L	L1							<	1					—		<	50
L313	1,1,2,2-Tetrachloroethane	ug/L	L1		<	200	< 1							<	5		•	\vdash	
L315	1,1,2,2-Tetrachloroethane	ug/L	L1													<	50	†	
L317	1,1,2,2-Tetrachloroethane	ug/L	L1	-	<	200						P<	1			<u> </u>		t^{-}	
L318	1,1,2,2-Tetrachloroethane	ug/L	L1							<	1		_	i		İ		<	50
L313	1,1,2-Trichloroethane	ug/L	L ₁		<	200	< 1					1		<	5			t	
L315	1,1,2-Trichloroethane	ug/L	L1									<u> </u>				<	50	t	
L317	1,1,2-Trichloroethane	ug/L	L1		<	200						P<	1	1				1	
L318	1,1,2-Trichloroethane	ug/L	L ₁	İ	i		-			<	1					†		<	50
L313	1.1-Dichloroethane	ug/L	L ₁		<	200	< 1	i		 				<	5	†		\vdash	
L315	1,1-Dichloroethane	ug/L	L1							· · · ·		\vdash			-	<	50	t	
	1,1-Dichloroethane	ug/L	L1		~	200				 -		P<	1	 	•	 		\vdash	
L318	1,1-Dichloroethane	ug/L	L1				_			<u> </u>	1	 	· ·					<	50
L313	1,1-Dichloroethene	ug/L	L1	· · · · ·	<	200	< 1			-	<u> </u>	\vdash		<	5	 		 	
L315	1,1-Dichloroethene	ug/L	L1		<u> </u>		-					\vdash				<	50	\vdash	
L317	1,1-Dichloroethene	ug/L	L1			200						P<	1	1		۲		\vdash	
L317	1,1-Dichloroethene	ug/L	L1		- -					<	1	H				\vdash		<	50
L313	1,1-Dichloropropene	ug/L	<u>L</u> 1		<	200	< 1			-	'	 		<	5	\vdash		Ť	
L315	1,1-Dichloropropene	ug/L ug/L	L1	-	<u> </u>	200	- '								J	<	50	\vdash	
L317	1.1-Dichloropropene	ug/L	L1		<	200						P<	1	 -		 	30	\vdash	
L318	1,1-Dichloropropene	ug/L	<u>.</u>		<u> </u>	200				<	1	۲Ò		\vdash		-		<	50
LJ10	1'1-Did ingrobiobene	L ug/L		L	L						<u>'</u>	Ь		<u> </u>				<u> </u>	30

Well ID	Parameter	Units	List	1stQtr08	2r	ndQtr08	4thQ	tr08	2nd	tQtr09	4thC	Qtr09	2nd	dQtr10	4th	Qtr10	2r	ndQtr11	4t	hQtr11
L313	1,2,3-Trichlorobenzene	ug/L	L1		<	200	<	1							<	5				
L315	1,2,3-Trichlorobenzene	ug/L	L1								1						<	50		
L317	1,2,3-Trichlorobenzene	ug/L	L1		<	200							P<	1						
L318	1,2,3-Trichlorobenzene	ug/L	L1								<	1					1		<	50
L313	1,2,3-Trichloropropane	ug/L	L1		<	200	<	1	1						<	5				
L315	1,2,3-Trichloropropane	ug/L	L1						<	5							<	50		
L317	1,2,3-Trichloropropane	ug/L	L1		<	200							P<	1						
L318	1,2,3-Trichloropropane	ug/L	L1	l							<	1							<	50
L313	1,2,4-Trichlorobenzene	ug/L	L1		<	200	<	1							<	5			1	
L315	1,2,4-Trichlorobenzene	ug/L	L1	-					<	5							<	50		
L317	1,2,4-Trichlorobenzene	ug/L	L1		<	200							P<	1	-				\top	
L318	1,2,4-Trichlorobenzene	ug/L	Ł1								<	1							<	50
L313	1,2,4-Trimethylbenzene	ug/L	L1		<	200		24								66			\top	
L315	1,2,4-Trimethylbenzene	ug/L	L1	" -						14							<	50	T	
L317	1,2,4-Trimethylbenzene	ug/L	L1		<	200							Р	39					T	
L318	1,2,4-Trimethylbenzene	ug/L	L1									38							<	50
L313	1,2-Dibromo-3-chloropropane	ug/L	L1		<	200	<	1							<	25			1	
L315	1,2-Dibromo-3-chloropropane	ug/L	L1						<	25							<	10		
L317	1,2-Dibromo-3-chloropropane	ug/L	L1		<	200							P<	5						
L318	1,2-Dibromo-3-chloropropane	ug/L	L1		Ì				1		<	5							<	10
L313	1,2-Dibromoethane	ug/L	L1		<	200	<	1					1		<	25	İ			
L315	1,2-Dibromoethane	ug/L	L1						i								<	10	\top	
L317	1,2-Dibromoethane	ug/L	L1		<	200						_	P<	5						
L318	1,2-Dibromoethane	ug/L	L1								<	5							<	10
L313	1,2-Dichlorobenzene	ug/L	L1		<	200	<	1							<	5				
L315	1,2-Dichlorobenzene	ug/L	L1						<	5							<	50		
L317	1,2-Dichlorobenzene	ug/L	L1		<	200				_	T		Р	3.8						
L318	1,2-Dichlorobenzene	ug/L	L1		L							2.8							<	50
L313	1,2-Dichloroethane	ug/L	L,1		<	200	<	1							<	5				
L315	1,2-Dichloroethane	ug/L	L1						<	5							<	50	1	
L317	1,2-Dichloroethane	ug/L	L1		<	200							P<	1					T	
L318	1,2-Dichloroethane	ug/L	L1								<	_ 1							<	50
L313	1,2-Dichloropropane	ug/L	L1		<	200	<	1							<	5				
L315	1,2-Dichloropropane	ug/L	L1						<	5							<	50	T	
L317	1,2-Dichloropropane	ug/L	L1		<	200		_			1		P<	1			П		T	
L318	1,2-Dichloropropane	ug/L	L1								<	1							<	50
L313	1,3,5-Trimethylbenzene	ug/L	L1		<	200		8.8								25				
L315	1,3,5-Trimethylbenzene	ug/L	L1						<	5							<	50		
L317	1,3,5-Trimethylbenzene	ug/L	L1		<	200							Р	11					1	
L318	1,3,5-Trimethylbenzene	ug/L	L1									11					1		<	50
L313	1,3-Dichlorobenzene	ug/L	L1		<	200	<	1							<	5			\top	
L315	1,3-Dichlorobenzene	ug/L	L1						<	5							<	50	1	
L317	1,3-Dichlorobenzene	ug/L	L1		<	200	L						P<	1			T		1	
L318	1,3-Dichlorobenzene	ug/L	L1								<	1	T		ŀ		İ		<	50
L313	1,3-Dichloropropane	ug/L	L1		<	200	<	1							<	5	1		T	
L315	1,3-Dichloropropane	ug/L	L1						<	5	T				1		<	50	1	
L317	1,3-Dichloropropane	ug/L	L1		<	200							P<	1			1		T	
L318	1.3-Dichloropropane	ug/L	L1								<	1	1						<	50

Well ID	Parameter	Units	List	1stQtr08	2	ndQtr08	4th	Qtr08	2n	dQtr09	4th	Qtr09	2n	dQtr10	4th	Qtr10	2n	dQtr11	41	hQtr11
L313	1,3-Dichloropropene	ug/L	L1		<	400	<	2			1				<	10	1		\top	
L315	1,3-Dichloropropene	ug/L	L1						<	10							<	50	\top	
L317	1,3-Dichloropropene	ug/L	L1		<	400			1		†	-	P<	2	1		i –		\top	
L318	1,3-Dichloropropene	ug/L	L1		\vdash						<	2	1				1		<	200
L313	1.4-Dichlorobenzene	ug/L	L1		<	200		8.5	1						С	12	1		1	
L315	1.4-Dichlorobenzene	ug/L	L1							10	<u> </u>		 				<	50	+	
L317	1,4-Dichlorobenzene	ug/L	L1		<	200					1		P	23	†		†—		+	
L318	1,4-Dichlorobenzene	ug/L	L1								1	16	Ť		i				-	50
L313	1-Propanol	ug/L	L1		<	200000	<	1000	 				1		<	5000	1		+	
L315	1-Propanol	ug/L	L1		 			,,,,,	<	5000	-		 		 		<	10000	+-	
L317	1-Propanol	ug/L	L1		<	200000	 		+ -		 		P<	1000	 		-	10000	+-	
L318	1-Propanol	ug/L	L1		H	200000			+		<	1000	 ` `	1000	 			_	<	10000
L313	2,2-Dichloropropane	ug/L	L1		<	200	<	1	1		-	1000	┼		<	5	1		+`	10000
L315	2.2-Dichloropropane	ug/L	L1		 - -	200	 `	'	-	5	\vdash		+		- ` -		<	50	$+\!-$	
L317	2,2-Dichloropropane	ug/L	L1		<	200			 `	<u> </u>	 	_	P<	1			+	- 50	+	
L317	2,2-Dichloropropane	ug/L ug/L	L1		 `	200			+		-	1	+		 		 		<	50
L318	2,4,6-Trichlorophenol		L1		_	100	_	100	\vdash		 `	- 1	+-		<u> </u>	100	\vdash		+	
L313	2,4,6-Trichlorophenol	ug/L ug/L	L1		\vdash	100	 `-	100	-	100	 		+		 `	100	<	500	+-	
	2.4.6-Trichlorophenol		L1		<	100	-		 `	100	 		-	100	 		+	500	+	
L317		ug/L	L1		⊢	100	-		-		<	100	\ <u>`</u>	100	-		+	_	<	
L318	2.4,6-Trichlorophenol	ug/L			-	2.0	T<		+-		<u> </u>	100	├				\vdash		┿	500
L313	2,4-D	ug/L	L1		-	3.6	1.1	1	-	0.4	 -		-		Q<	1	 - -		+-	
L315	2.4-D	ug/L			<u> </u>	0.4	<u> </u>		<	0.1	-		├ —		1		<	1	$+\!-$	
L317	2,4-D	ug/L	L1		<	0.1			-				<		ļ		├		┼	
L318	2.4-D	ug/L	L1		 	400		400	-		<	1	-				-		<u> </u>	1
L313	2.4-Dichlorophenol	ug/L	L1		<	100	<	100	-	400	-		-		<	100	-		+	
L315	2,4-Dichlorophenol	ug/L	L1		-				<	100			_				<	100	—	
L317	2,4-Dichlorophenol	ug/L	L1		<	100			-		_		<	100	ļ		₩		+	
L318	2,4-Dichlorophenol	ug/L	L1		-				-		<	100	ļ		ļ				<	100
L313	2,4-Dimethylphenol	ug/L	L1		<	100	<	100	 		<u> </u>		-		<	100	-		ــــــ	
L315	2,4-Dimethylphenol	ug/L	L1		<u> </u>		ļ		<u> </u>	100	<u> </u>						<	100	╄	
L317	2,4-Dimethylphenol	ug/L	L1		<	100	<u> </u>		↓		ļ		<	100					↓	
L318	2,4-Dimethylphenol	ug/L	L1		<u> </u>				<u> </u>		<	100							<	100
L313	2,4-Dinitrophenol	ug/L	L1		<	500	<	500	<u> </u>				<u> </u>		<	500	ļ		₩	
L315	2,4-Dinitrophenol	ug/L	L1		ļ				<	500	<u> </u>						<	500	┷	
L317	2,4-Dinitrophenol	ug/L	L1		<	500					_		<	500	ļ				₩	
L318	2,4-Dinitrophenol	ug/L	L1								<	500	L		L		1		<	500
L313	2,4-Dinitrotoluene	ug/L	L1		<	100	<	100			<u> </u>				<	100			\perp	
L315	2,4-Dinitrotoluene	ug/L	Ļ1		$oxed{oxed}$				<	100	<u> </u>						<	100		
L317	2,4-Dinitrotoluene	ug/L	L1		<	100					<u></u>		<	100	<u> </u>					
L318	2,4-Dinitrotoluene	ug/L	L1								<	100							<	100
L313	2,6-Dinitrotoluene	ug/L	L1		<	100	<	100							<	100				
L315	2,6-Dinitrotoluene	ug/L	L ₁						<	100							<	100		
L317	2,6-Dinitrotoluene	ug/L	L1		<	100							<	100						
L318	2,6-Dinitrotoluene	ug/L	L1								<	100							<	100
L313	2-Butanone	ug/L	L1		<	1000		25							Н	1100			T	
L315	2-Butanone	ug/L	L1						<	25							<	100	\top	
L317	2-Butanone	ug/L	L1		<	1000							P	19			1		1	
L318	2-Butanone	ug/L	L1									24					1		<	100

Well ID	Parameter	Units	List	1stQtr08	2n	dQtr08	4th	Qtr08	2ne	dQtr09	4th	Qtr09	2no	1Qtr10	4th	Qtr10	2n	dQtr11	4t	hQtr11
L313	2-Chloroethyl vinyl ether	ug/L	L1	701225			<	10	 		 		1		<	50				
L315	2-Chloroethyl vinyl ether	ug/L	L1						 		1						<	50	\vdash	
L317	2-Chloroethyl vinyl ether	ug/L	L1						†		1		<	10						
L318	2-Chloroethyl vinyl ether	ug/L	L1				†		† 		<	10							<	50
L313	2-Chloronaphthalene	ug/L	L1		<	100	<	100	1		i				<	100			1	
L315	2-Chioronaphthalene	ug/L	L1				t —		<	100							~	100	†	
L317	2-Chloronaphthalene	ug/L	L1		<	100	i e		 				<	100					 	
L318	2-Chloronaphthalene	ug/L	L1		- -				1		 - -	100					 		<	100
L313	2-Chlorophenol	ug/L	L1		_	100	7	100	1		 		1		<	100	 		1	
L315	2-Chlorophenol	ug/L	L1		-	100	-		<	100	1		1				<	100	1	
L317	2-Chlorophenol	ug/L	L1		<	100			+ -		1		-	100			<u> </u>	-100	+	
L317	2-Chlorophenol	ug/L	L1		 `	100	 		†		<	100	÷	. 100			 		<	100
L313	2-Chlorotoluene	ug/L	L1		<	200	<	1	†		 `	100	+		<	5	 		È	100
L315	2-Chlorotoluene	ug/L	L1		<u> </u>		l `		-	5			+		- -	<u> </u>	<	50	 	
L317	2-Chlorotoluene	ug/L	L1		_	200			+		 	-	P<	1	 		 `-	30	+	
L317	2-Chlorotoluene	ug/L ug/L	L1		-`- -	200	 		 		-	1	+	'			 		-	50
L313	2-Hexanone	ug/L ug/L	L1		_	1000	-	5	┼		 `	<u>'</u>	+		-	99	 		 `-	
L315	2-Hexanone	ug/L ug/L	L1	-	 ` -	1000	 `		\ \	25	├		+		 	99	<	100	+	
L317	2-Hexanone		L1		-	1000	-		 `-	23	 		P<	5	-		 `	100	┼	
		ug/L	L1		 ` -	1000	-		 		-<	5	+		_		<u> </u>		<	100
L318	2-Hexanone	ug/L	+		- -	100	<	100	+		<u> </u>		-			100	1		- -	100_
L313	2-Nitrophenol	ug/L	L1		<	100	 `	100	-	100	<u> </u>		 		<	100	<	100	+-	
L315	2-Nitrophenol	ug/L	L1		<u> </u>	400			^	100	 		+	400	ļ		 	100	╁	
L317	2-Nitrophenol	ug/L	L1		<	100			+		<u> </u>		<	100	ļ		-		+-	
L318	2-Nitrophenol	ug/L	L1		<u> </u>				1		<	100	-				-		<	100
L313	2-Propanol	ug/L	L1		<u> </u>		<	1000	 		!		ļ		<	5000	-		-	
L315	2-Propanol	ug/L	L1		<u> </u>				<	5000	ļ		<u> </u>				<u> </u>	10000	1	
L317	2-Propanol	ug/L	L1		 -				\		<u> </u>		P<	1000			!		├	
L318	2-Propanol	ug/L	<u>L1</u>		<u> </u>				ļ		<	1000	-				-		<	10000
L313	3,3'-Dichlorobenzidine	ug/L	L1		<	200	<	200	 		\		<u> </u>		<	200	1		١_	
L315	3,3'-Dichtorobenzidine	ug/L	. L1		<u> </u>				<	200			ļ				<	200	Ь.	
L317	3,3'-Dichlorobenzidine	ug/L	L1		<u> </u>	200			ļ		-		<	200					ـــــ	
L318	3,3'-Dichlorobenzidine	ug/L	L1		<u> </u>		ļ				<u> </u>	200	<u> </u>						<	200
L313	4,4'-DDD	ug/L	L1		<	1	<	1	ļ		<u> </u>		<u> </u>		Χ<	1			Ь.	
L315	4,4'-DDD	ug/L	L1		<u> </u>				Q<	11							<	1	ㄴ	
L317	4,4'-DDD	ug/L	L1		<	1							T<	0.1						
L318	4,4'-DDD	ug/L	L1								<	1							<	1
L313	4,4'-DDE	ug/L	L1		<	1	<	11							Χ<	1				
L315	4,4'-DDE	ug/L	L1						Q<	11							<	1		
L317	4,4'-DDE	ug/L	L1		<	1							T<	0.1						
L318	4,4'-DDE	ug/L	L1								<	1							<	1
L313	4,4'-DDT	ug/L	L1		<	1	<	1							Χ<	1				
L315	4,4'-DDT	ug/L	L1						<	1							<	1		
L317	4,4'-DDT	ug/L	L1		<	1							T<	0.1					\Box	
L318	4,4'-DDT	ug/L	L1								<	1							<	1
L313	4,6-Dinitro-2-methylphenol	ug/L	L1		<	500	<	500]		<	500				
L315	4,6-Dinitro-2-methylphenol	ug/L	L1		\Box				<	500	1		1		\Box		<	500	Ţ	
L317	4,6-Dinitro-2-methylphenol	ug/L	L1		<	500			T		Î		<	500						
L318	4,6-Dinitro-2-methylphenol	ug/L	L1		 		1		1		<	500	1						~	500

Well ID	Parameter	Units	List	1stQtr08	2r	ndQtr08	4ti	hQtr08	2n	dQtr09	4th	Qtr09	2n	dQtr10	4tl	nQtr10	2п	dQtr11	41	hQtr11
L313	4-Bromophenyl-phenylether	ug/L	L1		<	100	<	100					1		<	100				
L315	4-Bromophenyl-phenylether	ug/L	L1				1	_	<	100							<	100	1	
L317	4-Bromophenyl-phenylether	ug/L	L1		<	100						·	<	100						
L318	4-Bromophenyl-phenylether	ug/L	L1								<	100							<	100
L313	4-Chlorophenyl-phenyl Ether	ug/L	L1		<	100	<	100							<	100				
L315	4-Chlorophenyl-phenyl Ether	ug/L	L1				T		<	100							<	100	T	
L317	4-Chlorophenyl-phenyl Ether	ug/L	L1		<	100							<	100						
L318	4-Chlorophenyl-phenyl Ether	ug/L	L1				1				<	100							<	100
L313	4-Chlorotoluene	ug/L	L1		<	200	<	1							<	5			1.	
L315	4-Chlorotoluene	ug/L	L1						<	5]		<	50	T	
L317	4-Chlorotoluene	ug/L	L1		<	200							P<	1			T		Τ	
L318	4-Chlorotoluene	ug/L	L1								<	1							<	50
L313	4-Methyl-2-pentanone	ug/L	L1		<	1000		9.6					L			52				
L315	4-Methyl-2-pentanone	ug/L	L1							26							<	100		
L317	4-Methyl-2-pentanone	ug/L	L1		<	1000	L						P<	5						
L318	4-Methyl-2-pentanone	ug/L	L1								<	5							<	100
L313	4-Methylphenol	ug/L	L1			180	<	100			1					3100				
L315	4-Methylphenol	ug/L	L1						<	100							<	100		
L317	4-Methylphenol	ug/L	L1			720							<	100						
L318	4-Methylphenol	ug/L	L1								<	100							<	100
L313	4-Nitrophenol	ug/L	L1		<	100	<	100							<	100	<u> </u>			
L315	4-Nitrophenol	ug/L	L1						<	100							<	500		
L317	4-Nitrophenol	ug/L	L1		<	100							<	100						
L318	4-Nitrophenol	ug/L	L1								<	100	1						<	500
L313	Acenaphthene	ug/L	L1		<	100	<	100	<u></u>						<	100				
L315	Acenaphthene	ug/L	L1					_	<	100							<	100		
L317	Acenaphthene	ug/L	L1		<.	100			<u></u>				<	100						
L318	Acenaphthene	ug/L	<u>L1</u>								<	100							<	100
L313	Acetone	ug/L	L <u>1</u>			2800		66							Н	1600				
L315	Acetone	ug/L	L1							95							<	100		
L317	Acetone	ug/L	L1		<	2000			<u> </u>				P	28						
L318	Acetone	ug/L	L1				l					35					L		<	100
L313	Alachlor	ug/L	L1		<	4	<	4							<	4				
L315	Alachlor	ug/L	L1						<	0.4					<u> </u>		<	4		
L317	Alachlor	ug/L	L1		<	4	L		L				<	4					<u>.</u>	
L318	Alachlor	ug/L	L1								<	0.4							<	4
L313	Aldicarb	ug/L	L1			22		6.8							<	4				
L315	Aldicarb	ug/L	L1						<	0.4							<	2		
L317	Aldicarb	ug/L	L1		<	20							<	4						
L318	Aldicarb	ug/L	L1									19							<	2
L313	Aldrin	ug/L	L1		<	0.5	<	0.5							Χ<	0.5				
L315	Aldrin	ug/L	L1						Q<	0.5							<	0.5		
L317	Aldrin	ug/L	L1		<	0.5							T<	0.05						
L318	Aldrin	ug/L	L1								<	0.5							<	0.5
L313	alpha-BHC	ug/L	L1		<	0.5	<	0.5			L				Χ<	0.5				
L315	alpha-BHC	ug/L	L1						Q<	0.5							<	0.5		
L317	alpha-BHC	ug/L	Ł1		<	0.5							T<	0.05						
L318	alpha-BHC	ug/L	L1								<	0.5							<	0.5

Well ID	Parameter	Units	List	1stQtr08	2n	dQtr08	4th	Qtr08	2n	dQtr09	4th	nQtr09	2ne	dQtr10	4th	Qtr10	2n	dQtr11	41	hQtr11
L313	Anthracene	ug/L	L1		7	100	<	100							<	100			\top	
L315	Anthracene	ug/L	L1						<	100							<	100	1	
L317	Anthracene	ug/L	L1		<	100							<	100	i –					
L318	Anthracene	ug/L	L1			•					<	100				-			<	100
L313	Atrazine	ug/L	L1		<	2	<	2			1				<	2			1	
L315	Atrazine	ug/L	L1						<	0.2							<	2	\top	
L317	Atrazine	ug/L	L1		<	2					1		<	2					1	
L318	Atrazine	ug/L	L1				i i				<	0.2	1						<	2
L313	Benzene	ug/L	L1		 	200		4.8					T			7.2			1	
L315	Benzene	ug/L	L1						<	5							<	50	1	
L317	Benzene	ug/L	L1		<	200							Р	4.4					T	
L318	Benzene	ug/L	L1						1		\top	3.7	1						<	50
L313	Benzo(a)anthracene	ug/L	L1		<	100	<	100	i				1		<	100			1	
L315	Benzo(a)anthracene	ug/L	L1						<	100							<	100	1	
L317	Benzo(a)anthracene	ug/L	L1		<	100			Ì				<	100	1				\top	
L318	Benzo(a)anthracene	ug/L	L1						1	_	<	100			İ				<	100
L313	Benzo(a)pyrene	ug/L	L1	1	F<	100	<	100	1		\vdash				<	100			\top	
L315	Benzo(a)pyrene	ug/L	L1						<	100		_					<	100	\top	
L317	Benzo(a)pyrene	ug/L	L1		F<	100							<	100					\top	
L318	Benzo(a)pyrene	ug/L	L1								<	100							<	100
L313	Benzo(b)fluoranthene	ug/L	L1		F<	100	<	100	1		\top		1		_	100			\top	
L315	Benzo(b)fluoranthene	ug/L	L1		1				<	100			1				<	100	1	
L317	Benzo(b)fluoranthene	ug/L	L1		F<	100	1						<	100	_				+	
L318	Benzo(b)fluoranthene	ug/L	L1	· -							<	100	1			_			<	100
L313	Benzo(g,h,i)perylene	ug/L	L1		F<	100	<	100							<	100			\top	
L315	Benzo(g,h,i)perylene	ug/L	L1				i		<	100					1		<	100	\top	
L317	Benzo(g,h,i)perylene	ug/L	L1		F<	100					T		<	100	i i				\top	
L318	Benzo(g,h,i)perylene	ug/L	L1		1						<	100						_	<	100
L313	Benzo(k)fluoranthene	ug/L	L1		F<	100	<	100	-						<	100			1	
L315	Benzo(k)fluoranthene	ug/L	L1						<	100					1	-	<	100	T	
L317	Benzo(k)fluoranthene	ug/L	L1		F<	100							<	100	1	•				
L318	Benzo(k)fluoranthene	ug/L	L1							-	<	100			1		Ī		<	100
L313	beta-BHC	ug/L	L1		<	0.5	<	0.5					1		Χ<	0.5				
L315	beta-BHC	ug/L	L1						<	0.5			1				<	0.5	\top	
L317	beta-BHC	ug/L	L1		<	0.05			1				T<	0.05	1				1	
L318	beta-BHC	ug/L	L1								<	0.5							<	0.5
L313	bis(2-Chloroethoxy)methane	ug/L	L1		<	100	<	100					I^{-}		<	100	Ī	-		
L315	bis(2-Chloroethoxy)methane	ug/L	L1			_			<	100					1		<	100		
L317	bis(2-Chloroethoxy)methane	ug/L	L1		<	100	l						<	100	i -		Ī		\top	
L318	bis(2-Chloroethoxy)methane	ug/L	L1		i –		l				<	100			Ì		Ì		<	100
L313	bis(2-Chloroethyl) Ether	ug/L	L1		<	100	<	100	1				1		<	100	T		\top	
L315	bis(2-Chloroethyl) Ether	ug/L	L1					· · · · · · · · · · · · · · · · · · ·	<	100		-			Ì		<	100	T^{T}	
L317	bis(2-Chloroethyl) Ether	ug/L	L1		<	100			T-		T^{-}		<	100			1		T	
L318	bis(2-Chloroethyl) Ether	ug/L	L1								<	100	1 -		T				<	100
L313	bis(2-Chloroisopropyl)Ether	ug/L	L1	1	<	100	<	100			\vdash				<	100			\top	
L315	bis(2-Chloroisopropyl)Ether	ug/L	L1		t		1	-	<	100			†		l		<	100	1	
L317	bis(2-Chloroisopropyl)Ether	ug/L	L1		<	100			1				<	100	1	9	1		\top	
L318	bis(2-Chloroisopropyl)Ether	ug/L	L1					-	1		<	100	1				†		<	100

Well ID	Parameter	Units	List	1stQtr08	2	ndQtr08	4th	Qtr08	2n	dQtr09	4th	Qtr09	2nd	dQtr10	4th	Qtr10	2n	dQtr11	41	thQtr11
L313	bis(2-Ethylhexyl)phthalate	ug/L	L1			440	<	100							<	100				
L315	bis(2-Ethylhexyl)phthalate	ug/L	L1						<	100							<	100		
L317	bis(2-Ethylhexyl)phthalate	ug/L	L1			1200							<	100						
L318	bis(2-Ethylhexyl)phthalate	ug/L	L1								<	100							<	100
L313	bis(Chloromethyl) ether	ug/L	L1		<	2000000			}						<	50000				
L315	bis(Chloromethyl) ether	ug/L	L1						<	50000							<	100000		
L317	bis(Chloromethyl) ether	ug/L	L1		<	2000000							P<	10000					1	
L318	bis(Chloromethyl) ether	ug/L	L1								<	10000							<	100000
L313	Bromobenzene	ug/L	L1		<	200	<	1							<	5				
L315	Bromobenzene	ug/L	L1	1					<	5						,	<	50	П	
L317	Bromobenzene	ug/L	L1		<	200	_						P<	1		_				
L318	Bromobenzene	ug/L	L1		1						<	1							<	50
L313	Bromochloromethane	ug/L	L1		<	200	<	1			1				<	5			\Box	
L315	Bromochloromethane	ug/L	L1						<	5	1						<	50		
L317	Bromochloromethane	ug/L	L1		<	200							P<	1					\top	
L318	Bromochloromethane	ug/L	L1							_	<	1		_					<	50
L313	Bromodichloromethane	ug/L	L1		<	200	<	1					i –		<	5	· · ·	-	T	
L315	Bromodichloromethane	ug/L	L1						<	5			\vdash				<	50		
L317	Bromodichloromethane	ug/L	L1	ĺ	<	200					1		P<	1			T-		t	
L318	Bromodichloromethane	ug/L	L1		t	_				_	<	1				-	1		<	50
L313	Bromoform	ug/L	L1		 	200	<	1			t –				<	5	T		\top	
L315	Bromoform	ug/L	L1						<	5	1	-			· · · ·	-	<	50	1	
L317	Bromoform	ug/L	L1		<	200			†				P<	1					\top	
L318	Bromoform	ug/L	L1						<u> </u>		<	1					t —		<	50
L313	Bromomethane	ug/L	L1		<	400	<	2					†		<	10			 	
L315	Bromomethane	ug/L	L1						<	10	 				<u> </u>		<u> </u>	50	1	
L317	Bromomethane	ug/L	L1		<	400			1				P<	2					t	
L318	Bromomethane	ug/L	L1						\vdash		<	2	Ė-						<	50
L313	Butylbenzylphthalate	ug/L	L1	l	<	100	<	100	\vdash		t		t		<	100	1		t^{-}	
L315	Butylbenzylphthalate	ug/L	L1		 					100	†		 				<	100	\vdash	
L317	Butylbenzylphthalate	ug/L	L1		<	100					1		<	100			 		\vdash	
L318	Butylbenzylphthalate	ug/L	L1		_				 		<	100	 				-		<	100
L313	Carbofuran	ug/L	L1		<	15	<	15	_				 		<	15	<u> </u>		+	
L315	Carbofuran	ug/L	L1						<	1.5	 		 		 		~	2	+-	
L317	Carbofuran	ug/L	L1	 	<	15		-	<u> </u>	1.0			<u> </u>	15			 		+	
L318	Carbofuran	ug/L	L1	· · · · · · · · · · · · · · · · · · ·					 	-	<	1.5					\vdash		<	2
L313	Carbon Disulfide	ug/L	L1		<	200	<	1	\vdash			1.0			<	5			+	
L315	Carbon Disulfide	ug/L	L1		H			'	<	5			 				<	50	+	
L317	Carbon Disulfide	ug/L	L1		<	200			l`				P	2			H		+	
L317	Carbon Disulfide	ug/L	L1		 `	200			\vdash		<	1	├				 		<	50
L318	Carbon Tetrachloride	ug/L ug/L	L1	 	<	200	<	1	+		L`	!	\vdash		<	5	+-		Ť	
	 	ug/L ug/L	L1		+`	200		'	<	5	 		\vdash		⊢`			50	+-	
L315 L317	Carbon Tetrachloride Carbon Tetrachloride	— · ·	L1	-	<	200			 `	9	 		P<	1	 		+`-	-50	+	
	<u> </u>	ug/L		 	+	200			-		 		1				\vdash		<	50
L318	Carbon Tetrachloride	ug/L	L1	-	. <	5	<	-	1		<	1	 		V-	5			⇈	50
L313	Chlordane	ug/L	L1	 	+	<u> </u>	`	5	<		-		-		Χ<	<u>5</u>	<	5	+-	
L315 L317	Chlordane	ug/L	L1		 -				 -	5	-		T	0 F			 `	_	+-	
	Chlordane	ug/L	L1	t	<	5			1		1		T<	0.5	ı		I			

Well ID	Parameter	Units	List	1stQtr08	2п	dQtr08	4th	Qtr08	2n	dQtr09	4thQt	tr09	2n	dQtr10	4th	Qtr10	2n	dQtr11	4tl	hQtr11
L313	Chlorobenzene	ug/L	L1		<	200		4.2					 		<	5			1	
L315	Chlorobenzene	ug/L	L1						<	5		-					~	50	\top	
L317	Chlorobenzene	ug/L	L1		<	200							P	1.9			†		1	
L318	Chlorobenzene	ug/L	L1				-		\vdash			1.5					\top		<	50
L313	Chloroethane	ug/L	L1		<	400	<	2							<	10	\vdash		+	
L315	Chloroethane	ug/L	L1		l		ļ —		<	10	ţ		\vdash				<	50	\top	
L317	Chloroethane	ug/L	L1	<u> </u>	<	400							P<	2	T .				†	
L318	Chloroethane	ug/L	L1								<	2					 		<	50
L313	Chloroform	ug/L	L1		<	200	<	1	1						<	5	•		1	
L315	Chloroform	ug/L	L1						<	5	,						<	50	1	
L317	Chloroform	ug/L	L1		<	200							P<	1	1				\top	
L318	Chloroform	ug/L	L1	· · · · ·							<	1	_						<	50
L313	Chloromethane	ug/L	L1		<	400	<	2							<	10	1			
L315	Chloromethane	ug/L	L1						<	10	_						<	50	\top	
L317	Chloromethane	ug/L	L1		<	400			1				P<	2	1		1		1	
L318	Chloromethane	ug/L	L1				1				<	2	T -	-					<	50
L313	Chrysene	ug/L	L1	l	<	100	<	100			1		1	_	-	100	1		T	
L315	Chrysene	ug/L	L1		F		i		<	100	i				1		<	100	†	
L317	Chrysene	ug/L	L1	_	<	100	Î				1	-	<	100					1	
L318	Chrysene	ug/L	L1				i				<	100			1		i –		 <	100
L313	cis-1,2-Dichforoethene	ug/L	L1		~	200	1	3.2			<u> </u>					11			1	
L315	cis-1,2-Dichloroethene	ug/L	L1		İ				<	5	<u>† </u>				i		<	200	1	
L317	cis-1,2-Dichloroethene	ug/L	L1		<	200	ţ				<u> </u>		Р	22	Ì		1		_	
L318	cis-1,2-Dichloroethene	ug/L	L1	_				-			İ	13			ļ				<	200
L313	delta-BHC	ug/L	L1		<	0.5	<	0.5							X<	0.5			1	
L315	delta-BHC	ug/L	L1				T		<	0.5	ľ		<u> </u>	-	Ì		<	0.5	1	
L317	delta-BHC	ug/L	L1		<	0.5	1				1		T<	0.05						
L318	delta-BHC	ug/L	L1				1				<	0.5	i -	-				-	<	0.5
L313	Dibenzo(a,h)anthracene	ug/L	L1		F<	100	<	100							<	100				
L315	Dibenzo(a,h)anthracene	ug/L	L1						<	100							<	100		
L317	Dibenzo(a,h)anthracene	ug/L	L1		F<	100							<	100				-	1	
L318	Dibenzo(a,h)anthracene	ug/L	L1								<	100							<	100
L313	Dibromochloromethane	ug/L	L1		<	200	<	1							<	5				
L315	Dibromochloromethane	ug/L	L1						<	5							<	50	1	
L317	Dibromochloromethane	ug/L	L1		<	200							P<	1						
L318	Dibromochloromethane	ug/L	L1								<	1						-	<	50
L313	Dibromomethane	ug/L	L1		<	200	<	1							<	5				
L315	Dibromomethane	ug/L	L1						<	5							<	50		
L317	Dibromomethane	ug/L	L1		<	200					L.		P<	1						
L318	Dibromomethane	ug/L	L1								<	1							<	50
L313	Dichlorodifluoromethane	ug/L	L1		<	400	<	2							<	10				
L315	Dichlorodifluoromethane	ug/L	L1						<	10							<	50		
L317	Dichlorodifluoromethane	ug/L	L1		<	400							P<	2						
L318	Dichlorodifluoromethane	ug/L	L1				L				<	2							<	50
L313	Dieldrin	ug/L	L1		<	1	<	1							Χ<	1				
L315	Dieldrin	ug/L	L1						<	1							<	1		
L317	Dieldrin	ug/L	L1		<	1							T<	0.1						
L318	Dieldrin	ug/L	L1								<	1							<	1

Well ID	Parameter	Units	List	1stQtr08	2n	dQtr08	4th	Qtr08	2n	dQtr09	4th	Qtr09	2n	dQtr10	4th	Qtr10	2n	dQtr11	4t	hQtr11
L313	Diethylphthalate	ug/L	L1		<	100	<	100							<	100				
L315	Diethylphthalate	ug/L	L1						<	100			1		T		<	100	1	
L317	Diethylphthalate	ug/L	L1		~	100			1				<	100						
L318	Diethylphthalate	ug/L	L1				1		1		<	100				-			<	100
L313	Dimethylphthalate	ug/L	L1		<	100	<	100			1				<	100			1	
L315	Dimethylphthalate	ug/L	L1				i –		<	100	†				\vdash		<	100	\top	
L317	Dimethylphthalate	ug/L	L1		<	100		-	1				<	100					t^-	
L318	Dimethylphthalate	ug/L	L1		<u> </u>		† · · ·		1		<	100	†		\vdash		 		<	100
L313	Di-n-butylphthalate	ug/L	L1		_	100	<	100	1		†	_	 		<	100			+	
L315	Di-n-butylphthalate	ug/L	L1		\vdash				-	100		_			 		\ \	100	+	
L317	Di-n-butylphthalate	ug/L	L1	-	<	100			 		 		<	100	\vdash		\vdash		+-	
L318	Di-n-butylphthalate	ug/L	L1		\vdash		1		1		<	100			t —		1		<	100
L313	Di-n-octylphthalate	ug/L	L1		~	100	<	100			\vdash		\vdash		- -	100	1		+-	
L315	Di-n-octylphthalate	ug/L	L1				 		-	100	1		+		 		<	100	+	
L317	Di-n-octylphthalate	ug/L	L1		<	100			 		1		-	100	1		+ -		+	
L318	Di-n-octylphthalate	ug/L	L1	-	t^{-}		t		+		<	100	t		 		\vdash		<	100
L313	Dioxin Screen	ug/L	L1	 	-	100	<	100	+		<u> </u>		+-		-	100	+		+	
L315	Dioxin Screen	ug/L	L1		- -		<u> </u>		<	100	t		+				-	500	+	
L317	Dioxin Screen	ug/L	L1	 	_	100	1		+ -		_		-	100	-		+-		+	
L318	Dioxin Screen	ug/L	L1	 	 	100	 		+		<	100	†	100			+-		<	500
L313	Endosulfan I	ug/L	L1		-	0.5	<	0.5	+		1	100_	+-		X	0.83	+-		+-	
L315	Endosulfan I	ug/L	L1		⊢ `−	0.0	l	0.0	<	0.5	 		1		 ^-	0.00	-	1	+-	
L317	Endosulfan I	ug/L	L1	 	 	0.5	 		+	0.5	 		T<	0.05	 	-	┼`~		+	
L317	Endosulfan I	ug/L	L1		 ` -	0.0	1		+		<	0.5	+	0.03	\vdash		┿		 	1
L313	Endosulfan II	ug/L	L1	 	_	1	<	1	+	<u>·</u>	-	0.5	┼	-	X<	1	+-		+`	
L315	Endosulfan II	ug/L	L1		 ` -		 `		<	1	1		<u> </u>		-^`	<u>'</u>	<	1	+-	
L317		ug/L	L1			1	 		+`		 		T<:	0.1	+-		╀		+-	
L317	Endosulfan II	ug/L ug/L	L1	_	 ` -		 		+		<	1	+'`	U. I			╁	_	-	1
L313		ug/L ug/L	L1		_	1	<	1	+-		 `		 		X<	1	╁		+`	
	Endosulfan Sulfate	ug/L	L1		 `-		- `-		-	1	╂		+		<u> ^`</u>	. '	 	1	+	
L315	Endosulfan Sulfate		L1		-	1	 		+`	1	 		T<	0.1	├─		 `	'	+-	
L317	Endosulfan Sulfate	ug/L	L1		 ` -		 		+		<		+	0.1	<u> </u>		╁		<	
L318	Endosulfan Sulfate	ug/L	L1	-	-	1	<	1	╂		+`		┿		X<	1	-	_	╄	1
L313	Endrin	ug/L	L1		 `- -		+		+		-		+		<u> </u>		├ ─		+-	
L315	Endrin	ug/L			 		 		<	1	-		T<				<u> </u>	1	┿	
L317	Endrin	ug/L	L1		<u> </u>	1	 		-		 		11<	0.1	├ ─-		₩		+	
L318	Endrin	ug/L	L1		 		<u> </u>		┼		<	1	<u> </u>		 		\vdash		<	1
L313	Endrin Aldehyde	ug/L	L1		<u> </u>	1	<	1	 _		├				Χ<	1	\vdash		+-	
L315	Endrin Aldehyde	ug/L	L1		 				Q<	1	 		 		├		<	1	—	
L317	Endrin Aldehyde	ug/L	L1		<u> </u>	1					 		T<	0.1	├ ─		₩		₩	
L318	Endrin Aldehyde	ug/L	L1_	<u> </u>	}		<u> </u>				\ <u> </u>	1	1		↓		↓		_ <	1
L313	Ethyl Acetate	ug/L	L1		<u> </u>	2000	<	10	 		Ь—		1		<	50	!			
L315	Ethyl Acetate	ug/L	L1		 				<	50	Ļ		1		<u> </u>		<	50	↓	
L317	Ethyl Acetate	ug/L	L1	ļ	<u> </u>	2000	L		ــــــ		ļ		P<	10	$oldsymbol{ol}oldsymbol{ol}oldsymbol{ol}oldsymbol{ol}}}}}}}}}}}}}}}}}}}$		Ь.		₩	
L318	Ethyl Acetate	ug/L	L1		└				<u> </u>		<	10	1		L		<u> </u>	_	<_	50
L313	Ethylbenzene	ug/L	L1	ļ	<_	200		86	1		<u> </u>		L		С	47	<u> </u>		Щ	
L315	Ethylbenzene	ug/L	L1		<u> </u>					19					L		<	50	_	
L317	Ethylbenzene	ug/L	L1		<u> </u>	200					<u> </u>		Р	61	↓_		╙		┷	
L318	Ethylbenzene	ug/L	L1				L					51			L		<u> </u>			74

Winnebago Landfill Permit Renewal Application

Well ID	Parameter	Units	List	1stC	tr08	2n	dQtr08	4th	Qtr08	2n	dQtr09	4th	Qtr09	2nd	Qtr10	4th	Qtr10	2n	dQtr11	4t	hQtr11
L313	Fluoranthene	ug/L	L1				120	<	100	i						<	100			1 -	
L315	Fluoranthene	ug/L	L1							<	100							<	100	T	
L317	Fluoranthene	ug/L	L1			<	100							<	100						
L318	Fluoranthene	ug/L	L1							1		<	100							<	100
L313	Fluorene	ug/L	L1			<	100	<	100							<	100				
L315	Fluorene	ug/L	L1							<	100							<	100		
L317	Fluorene	ug/L	L1			<	100			1				<	100						
L318	Fluorene	ug/L	L1							1		<	100	1				Ì		<	100
L313	gamma-BHC (Lindane)	ug/L	L1			<	0.5	<	0.5							Χ<	0.5				
L315	gamma-BHC (Lindane)	ug/L	L1							<	0.5	1						<	0.5		
L317	gamma-BHC (Lindane)	ug/L	L1			<	0.5			T				T<	0.05					1	
L318	gamma-BHC (Lindane)	ug/L	L1									<	0.5							<	0.5
L313	Heptachlor	ug/L	L1			<	0.5	<	0.5	i –		1				Χ<	0.5				
L315	Heptachlor	ug/L	L1							Q<	0.5		-	<u> </u>				<	0.5		
L317	Heptachlor	ug/L	L1			<	0.05					1		T<	0.05	1					
L318	Heptachlor	ug/L	L1			T				T		<	0.5			i		\Box		\ \	0.5
L313	Heptachlor Epoxide	ug/L	L1			<	0.5	<	0.5	1	_	1		1		Χ<	0.5			1	
L315	Heptachlor Epoxide	ug/L	L1	-						<	0.5	1						<	0.5	1	
L317	Heptachlor Epoxide	ug/L	L1	_		<	0.5	i						T<	0.05					1	
L318	Heptachlor Epoxide	ug/L	L1					1		1		<	0.5					1		~	0.5
L313	Hexachlorobenzene	ug/L	L1			<	100	<	100			ļ				<	100				
L315	Hexachiorobenzene	ug/L	L1			i		1		<	100							<	100	-	
L317	Hexachlorobenzene	ug/L	L1			<	100					1		<	100	İ				† •	
L318	Hexachlorobenzene	ug/L	L1					i		†		<	100							<	100
L313	Hexachlorobutadiene	ug/L	L1			<	100	<	100			1				<	100		_	1	
L315	Hexachlorobutadiene	ug/L	L1							<	100	1				T		<	100	1	
L317	Hexachlorobutadiene	ug/L	L1			<	100			 				<	100				_	\top	
L318	Hexachlorobutadiene	ug/L	L1							<u> </u>		<	100	1						<	100
L313	Hexachlorocyclopentadiene	ug/L	L1			<	100	<	100	1						Q.R<	100			1 -	
L315	Hexachlorocyclopentadiene	ug/L	L1							<	100							<	100	\top	
L317	Hexachlorocyclopentadiene	ug/L	L1			<	100							<	100				_	1-	_
L318	Hexachlorocyclopentadiene	ug/L	L1						•	1		<	100							<	100
L313	Hexachloroethane	ug/L	L1			<	100	<	100	T		i –			_	<	100		_	1	
L315	Hexachloroethane	ug/L	L1							<	100	Ì						<	100	1	
L317	Hexachloroethane	ug/L	L1			<	100					t		<	100						
L318	Hexachioroethane	ug/L	L1									<	100	 	_			1		<	100
L313	Hexane Ext. Material (HEM) by SPE	mg/L	L1	<p< td=""><td>17</td><td>P</td><td>21</td><td><</td><td>5</td><td></td><td></td><td></td><td></td><td></td><td>_</td><td>Р</td><td>30</td><td>1</td><td>-</td><td></td><td></td></p<>	17	P	21	<	5						_	Р	30	1	-		
L315	Hexane Ext. Material (HEM) by SPE	mg/L	L1			T				P.<	-6							<	5	1	
L317	Hexane Ext. Material (HEM) by SPE	mg/L	L1	Р	48	P	38	t —		\vdash		1 -			33	1		T			
L318	Hexane Ext. Material (HEM) by SPE	mg/L	L1		-			· · · · ·				Р	9.9	†		1		t		<	18
L313	Indeno(1,2,3-cd)pyrene	ug/L	L1	<u> </u>		F<	100	<	100			1		T		<	100	 		T	
L315	Indeno(1,2,3-cd)pyrene	ug/L	L1					1		<	100	1		t^-		1		-	100	T	
L317	Indeno(1,2,3-cd)pyrene	ug/L	<u>-</u>	†		F<	100	 		1		1		<	100	†		t —	:	†	
L318	Indeno(1,2,3-cd)pyrene	ug/L	L1			 				 		<	100	t				\vdash		<	100
L313	Iodomethane	ug/L	<u>L</u> 1			~	200	<	1	<u> </u>				t		<	5	<u> </u>		1	
L315	Iodomethane	ug/L	L1							<	5	†		†		1		<	50	T	
L317	Iodomethane	ug/L	L1	 		<	200			\vdash		1		P<	1			t		1	
L318	Iodomethane	ug/L	L1							1		<	1	+		 		+		-	50

Table 7

Well ID	Parameter	Units	List	1stQtr08	21	ndQtr08	4th	Qtr08	2nd	dQtr09	4th	Qtr09	2nd	dQtr10	4th	Qtr10	2n	dQtr11	4t	hQtr11
L313	Isopropylbenzene	ug/L	L1		<	200		2.9					Ì			7.4			1 -	
L315	Isopropylbenzene	ug/L	L1						<	5	1						<	50		
L317	Isopropylbenzene	ug/L	L1		<	200					1		Р	5.4				-	1	
L318	Isopropylbenzene	ug/L	L1							-		4							<	50
L313	m,p-Xylene	ug/L	L1		<	200		120			1					82				
L315	m,p-Xylene	ug/L	L1							35	ì		T				<	50		
L317	m,p-Xylene	ug/L	L1		<	200					T		Р	130			\top		1	
L318	m,p-Xylene	ug/L	L1								ţ	110	ļ	····			T			180
L313	Methoxychlor	ug/L	L1		<	5	<	5							Χ<	5			1	
L315	Methoxychlor	ug/L	L1						<	5					<u> </u>		<	5	1	
L317	Methoxychlor	ug/L	L1		<	5							T<	0.5				_		
L318	Methoxychlor	ug/L	L1			-					<	5	i –						<	5
L313	Methylene Chloride	ug/L	L1		<	1000	<	5							<	25				
L315	Methylene Chloride	ug/L	L1						<	25							<	50	1	
L317	Methylene Chloride	ug/L	L1		<	1000					1		P<	5	1		1			
L318	Methylene Chloride	ug/L	L1								<	5					1		<	50
L313	m-Xylene	ug/L	L1	-				120	T		1		i –						1	
L315	m-Xylene	ug/L	L1			-			<u> </u>		†	_							<u> </u>	
L317	m-Xylene	ug/L	L1						1						l				1	
L318	m-Xylene	ug/L	L1									110	<u> </u>		1		_		+	
L313	Naphthalene	ug/L	L1		<	100	<	100			<u> </u>				<	100	1		1	
L315	Naphthalene	ug/L	L1		 				<	100					†		<	100	1	
L317	Naphthalene	ug/L	L1		<	100					1		<	100					_	
L318	Naphthalene	ug/L	L1		\vdash	_					<	100		-			1	· · · ·	<	100
L313	n-Butanol	ug/L	L1		<	200000	<	1000			<u> </u>				<	5000	 		\dagger	
L315	n-Butanol	ug/L	L1						~	5000			 		i –		<	10000	†	
L317	n-Butanol	ug/L	L1		<	200000							P<	1000	†		t -		t	
L318	n-Butanol	ug/L	L1		\vdash						<	1000	<u> </u>		<u>† </u>		\vdash			10000
L313	n-Butylbenzene	ug/L	L1	<u> </u>	<	200	<	1							<u> </u>	9			1	
L315	n-Butylbenzene	ug/L	L1		 				<	5	 		\vdash		·		<	50	+-	
L317	n-Butylbenzene	ug/L	L1		_	200							Р	2.8	 				+	
L318	n-Butylbenzene	ug/L	L1		_				<u> </u>		†	2.4	- -		<u> </u>		1		<	50
L313	Nitrobenzene	ug/L	L1		<	100	<	100			 		 		<	100	 		+-	
L315	Nitrobenzene	ug/L	L1		_				<	100	_		 				 	100	+-	
L317	Nitrobenzene	ug/L	L1		<	100							<	100	· · · ·		+-		+-	
L318	Nitrobenzene	ug/L	L1		- -					-	<	100	<u> </u>	100			+		-	100
L313	N-Nitrosodimethylamine	ug/L	L1		<	100	<	100			 ` 		 		<	100	+	_	┼	-100
L315	N-Nitrosodimethylamine	ug/L	L1		-	100			<	100	 		 		<u> </u>	100	+	100	+-	
L317	N-Nitrosodimethylamine	ug/L	L1		<	100			l '	100	 		<	100	+		È		+	
L318	N-Nitrosodimethylamine	ug/L	L1		-				 		<	100	'	100	 		+-		-	100
L313	N-Nitroso-di-n-propylamine	ug/L	L1				<	100	_		 `-		 		<	100	┼		+-	100
L315	N-Nitroso-di-n-propylamine	ug/L	L1				<u> </u>	100	 		 		 		L`	100	<	100	+	
L317	N-Nitroso-di-n-propylamine	ug/L ug/L	L1	<u>. </u>	\vdash				 		1		-	100			-	100	+-	
L317		ug/L ug/L	L1						_		<	100	 ` 	100	<u> </u>		+-		-	100
L318	N-Nitroso-di-n-propylamine	ug/L ug/L	L1		- -	100	<	100	 		+	100			<	100	+		+-	100
L315	N-Nitrosodiphenylamine N-Nitrosodiphenylamine	ug/L ug/L	L1		 ` -	100		100	<	100	 		 		<u> </u>	100	<	100	┼-	
L315		ug/L ug/L	L1		_	100			 	100	 		<	100	 		+	100	╁	
LJII	N-Nitrosodiphenylamine N-Nitrosodiphenylamine	ug/L ug/L	L1		<u> </u>	100			-		-	100	 `	100	-		₩		-	100

Well ID	Parameter	Units	List	1stQtr08	2n	dQtr08	4th	Qtr08	2n	dQtr09	4th	Qtr09	2n	dQtr10	4th	Qtr10	2n	dQtr11	4t	hQtr11
L313	n-Propylbenzene	ug/L	L1		<	200		3.7	1							12		_	1	
L315	n-Propylbenzene	ug/L	L1				1		<	5	Ì		1		1		<	50	7	
L317	n-Propylbenzene	ug/L	Ł1		<	200	Ì		1		1	-	Р	5.1	T^-		\top		1	
L318	n-Propylbenzene	ug/L	L1	_			Î		i			4.3			T^{-}		1		<	50
L313	o-Xylene	ug/L	L1		<	200		35	1				1			37	1			
L315	o-Xylene	ug/L	L1							18				-			<	50	1 -	
L317	o-Xylene	ug/L	L1		<	200					†		P	65	1		1		1	
L318	o-Xylene	ug/L	L1								ľ	56					1			79
L313	Parathion	ug/L	L1		<	2	<	2	1		<u> </u>				<	2	1			
L315	Parathion	ug/L	L1						<	0.2							<	2	_	
L317	Parathion	ug/L	L1		<	2	1		†		1		<	2	1		†		+	
L318	Parathion	ug/L	L1		 		1		†		<	0.2	 -						<	2
L313	Pentachlorophenol	ug/L	L1		<	0.05	T<	0.5	†				1		Q<	0.5				
L315	Pentachlorophenol	ug/L	L1				†		-	0.05					1 -		<	0.4	+	
L317	Pentachlorophenol	ug/L	L1		<	0.05		_	1		f -		Q<	0.5	\vdash	-	1	,	 	
L318	Pentachlorophenol	ug/L	L1		T		1		1		<	0.5	T .		T		+-		 -	0.4
L313	Phenanthrene	ug/L	L1	1	<	100	<	100	1		i e		1		-	100	1		1	
L315	Phenanthrene	ug/L	L1				1		<	100	t		T		I		-	100	1-	
L317	Phenanthrene	ug/L	L1	†	<	100	1		1		T		<	100	 		†		T	
L318	Phenanthrene	ug/L	L1						1		<	100			1		1		<	100
L313	Phenolics	ug/L	L1	1.1		0.73	1	0.62	+		1		†		 	2.8	\dagger		+	
L315	Phenolics	ug/L	L1		 -				+	0.29	1		 		 		1-	0.2	+	
L317	Phenolics	ug/L	L1	0.76		0.74			1					0.4	 				1	
L318	Phenolics	ug/L	L1								<u> </u>	0.62	 		+				1	0.18
	p-Isopropyltoluene	ug/L	L1		<	200		22	†				†		 	42			+	
	p-IsopropyItoluene	ug/L	L1						<	- 5					 		<	50	1	
	p-Isopropyltoluene	ug/L	L1		<	200			1				P	50	<u> </u>		1		 	
L318	p-Isopropyltoluene	ug/L	L1	1	1		1		1		Ì	33	†		1 – –	- ··	1		1	59
L313	Polychlorinated Biphenyls(PCBs)	ug/L	L1		<	5	<	5	1		Ì				X<	5	\top		1	
L315	Polychlorinated Biphenyls(PCBs)	ug/L	L1		<u> </u>				-	5					+		7	- 5	1	
L317	Polychlorinated Biphenyls(PCBs)	ug/L	L1		<	5	1		+		1		T<	0.5	+		†		+	
L318	Polychlorinated Biphenyls(PCBs)	ug/L	L1		1		 				<	5			†		†***		<	10
L313	p-Xylene	ug/L	L1		 		 	120	+		i		_		1		+		+	
L315	p-Xylene	ug/L	L1		— —				†				T		t^{-}		T		+	
	p-Xylene	ug/L	L1				<u> </u>		t -			-	T		+-	-	+		+-	
	p-Xylene	ug/L	L1		†				+-			110	\vdash		-		+		+	
L313	Pyrene	ug/L	L1	 		130	<	100					1			100	+	_	+	
L315	Pyrene	ug/L	L1						-	100			t		-		<	100	+-	
	Pyrene	ug/L	L1	1	<	100	 		 				<	100	+-		+		+-	
	Pyrene	ug/L	L1		<u> </u>		†		1		<	100	-		 		+-		_	100
	sec-Butylbenzene	ug/L	L1	t	<	200	<	1	+				 		-	5	+		+-	100
L315	sec-Butylbenzene	ug/L	L1		Ė		 		<	5	1		 		- -	_ <u>-</u>	<	50	+	
L317	sec-Butylbenzene	ug/L	L1		~	200	\vdash		Ť				P	1	-		+	- 50	+	
L317	sec-Butylbenzene	ug/L	L1		È	200	 		+		<	1	-	<u> </u>	+-		+		-	50
	Silvex	ug/L	L1		<	0.05	T,Q<	0.5	+		 ` 	'	 		Q<	0.5	+	-	+-	30
	Silvex	ug/L	L1		È	0.00	1,500	0.0	-	0.05	 		1		+ <u>~</u> ·		<	0.5	+	
L317	Silvex	ug/L	L1		_	0.05	 		+	0.00			Q<	0.5	+-		+	. 0.0	+-	
LUII	Silvex	ug/L	L1	 	⊢ `	0.00	-		+		<	0.5	<u> ``</u>	0.0	 		+		-	0,5

Well ID	Parameter	Units	List	1stQtr08	2r	ndQtr08	4thC	2tr08	2nd	IQtr09	4th(Qtr09	2nd	dQtr10	4th	Qtr10	2n	dQtr11	T 4th	hQtr11
L313	Styrene	ug/L	L1		<	200		3.1			1				<	8.5	 		+	
L315	Styrene	ug/L	L1		t -				<	5	 		t				<	50	+-	
L317	Styrene	ug/L	L1		<	200							Р	4			 		+	
L318	Styrene	ug/L	L1		 		<u> </u>		†		-	1	1				1		\ <u></u>	50
L313	tert-Butylbenzene	ug/L	L1		<	200		1	1				<u> </u>		<	5	†		+	
L315	tert-Butylbenzene	ug/L	L1		 		_		<	5	†		†				<	50	+	
L317	tert-Butylbenzene	ug/L	L1		<	200			1				P<	1			1		†	
L318	tert-Butylbenzene	ug/L	L1						†		<	1	<u> </u>	<u> </u>			ļ		<	50
L313	Tetrachloroethene	ug/L	L1		<u> </u>	200	<	1			 				<	5	t		1	
L315	Tetrachloroethene	ug/L	L1		-				-	5	1						<	50	+	
L317	Tetrachloroethene	ug/L	L1		<	200			<u> </u>				P<	1			†		+-	
L318	Tetrachloroethene	ug/L	L1						1		<	1	<u> </u>				\vdash		-	50
L313	Tetrahydrofuran	ug/L	L1		<	4000		360	1							180			+	
L315	Tetrahydrofuran	ug/L	L1							370	†							230	+	
L317	Tetrahydrofuran	ug/L	L1		<	4000							Р	410					t	
L318	Tetrahydrofuran	ug/L	L1		1						1	600	†		 		1		\top	320
L313	Toluene	ug/L	L1		<	200	1	240	† • • • • • • • • • • • • • • • • • • •		1		<u> </u>			140	†		T	
L315	Toluene	ug/L	L1		T				1	54	1		i –	-			1	56	\top	
L317	Toluene	ug/L	L1		<	200			†				P	86			-		\top	
L318	Toluene	ug/L	L1						1		ļ	65							1	130
L313	Toxaphene	ug/L	L1		<	15	<	15	—						Χ<	15	T		\top	
L315	Toxaphene	ug/L	L1						<	15	<u> </u>						<	5	_	
L317	Toxaphene	ug/L	L1		<	15							T<	1.5					+	
L318	Toxaphene	ug/L	L1								<	15							<	5
L313	trans-1,2-Dichloroethene	ug/L	L1		<	200	<	1	1						<	5			\top	
L315	trans-1,2-Dichloroethene	ug/L	L1						<	5					l		<	200	\top	
L317	trans-1,2-Dichloroethene	ug/L	L1		<	200					1		P<	1					\top	
L318	trans-1,2-Dichloroethene	ug/L	L1						1		7	1							<	200
L313	trans-1,3-Dichloropropene	ug/L	L1		<	200	<	1			•				<	5				
L315	trans-1,3-Dichloropropene	ug/L	L1						<	5							<	50	1	
L317	trans-1,3-Dichloropropene	ug/L	L1		<	200							<	1			1			
L318	trans-1,3-Dichloropropene	ug/L	L1								<	1		_					<	50
L313	trans-1,4-Dichloro-2-butene	ug/L	L1		<	200	<	1			1			_	<	5				
L315	trans-1,4-Dichloro-2-butene	ug/L	L1				i		<	5	ĺ		''''				<	50		
L317	trans-1,4-Dichloro-2-butene	ug/L	L1		<	200							P<	1						
L318	trans-1,4-Dichloro-2-butene	ug/L	L1								<	1							<	50
L313	Trichloroethene	ug/L	L1		<	200	<	1	''-		ĺ				<	5	"			
L315	Trichloroethene	ug/L	L1				1	_	<	5							<	50	1	
L317	Trichloroethene	ug/L	L1		<	200	1						P<	1					1	
L318	Trichloroethene	ug/L	L1								<	1							<	50
L313	Trichlorofluoromethane	ug/L	L1		<	200	<	1			Î				<	5			T	
L315	Trichlorofluoromethane	ug/L	L1		1				<	5							<	50		
L317	Trichlorofluoromethane	ug/L	L1		<	200			1		1		P<	1					1	
L318	Trichlorofluoromethane	ug/L	L1								<	1			<u> </u>				<	50
L313	Vinyl Acetate	ug/L	L1		<	1000	<	5							<	25			1	
L315	Vinyl Acetate	ug/L	L1					-	<	25							<	50	1	
L317	Vinyl Acetate	ug/L	L1		<	1000					 		P<	5					\top	
L318	Vinyl Acetate	ug/L	L1	-							<	5			\vdash	_			<	50

Well ID	Parameter	Units	List	1stQtr08	2n	dQtr08	4th	Qtr08	2nd	IQtr09	4thQ	tr09	2nd(Qtr10	4th	Qtr10	2n	dQtr11	4th	hQtr11
L313	Vinyl Chloride	ug/L	L1		<	400	<	2	1		1		Γ		<	10			Γ	
L315	Vinyl Chloride	ug/L	L1				L		<	10							<	50		
L317	Vinyl Chloride	ug/L	L1		<	400							Р	4.6						
L318	Vinyl Chloride	ug/L	L1								<	2							<	50
L313	Xylenes (Total)	ug/L	L1		<	600	<	3			L					120			L.	
L315	Xylenes (Total)	ug/L	L1							53							<	150		
L317	Xylenes (Total)	ug/L	L1		<	600			1				Р	200					1	
L318	Xylenes (Total)	ug/L	L1									170	1							260

Table 8 – Northern Unit Leachate Comparisons To Initial Source
Concentrations

Table 8 Northern Unit Leachate Comparison to Initial Source Concentrations

Winnebago Reclamation Service Permit Renewal Application

Parameter	Units	Mean Leachate Result	Standard Deviation (STDV)	(2xSTDV)	Mean + (2xSTDV)	Source Concentration From Initial GIA	
Inorganics		-				GIA	
Alkalinity, Bicarbonate as CaCO3	mg/L	8122.22	3970.761192	7941.5224	16063.74461	NM	
Aluminum, total	ug/L	0.97444444	1.599461715	3.1989234	4.173367874	NM	
Ammonia as N, total	mg/L	2427	1379.11445	2758.2289	5185.2289	20263.1666	
Antimony, total	ug/L	0.035888889	0.03109841	0.0621968	0.098085709	NM	
Arsenic, total	ug/L	0.755454545	0.560969939	1.1219399	1.877394424	10	
Barium, total	ug/L	0.548181818	0.227544202	0.4550884	1.003270221	828.3	
Beryllium, total	ug/L	ND ND	ND	ND	ND	NM	
Biochemical Oxygen Demand	mg/L	446.8181818	269.1493333	538.29867	985.1168485	NM	
Boron, total	ug/L	9.75555556	4.557442021	9.114884	18.8704396	NM	
Cadmium, total	ug/L	0.00405	0.003889087	0.0077782	0.011828175	1.2	
Calcium, total	mg/L	46.2444444	35.68245756	71.364915	117.6093596	NM	
Chemical Oxygen Demand	mg/L	5833.636364	2878.931304	5757.8626	11591.49897	NM	
Chloride, total	mg/L	3678.777778	2577.532491	5155.065	8833.84276	NM	
Chromium, total	ug/L	0.435454545	0.27222651	0.544453	0.979907565	809.7	
Cobalt, total	ug/L	0.077666667	0.037676252	0.0753525	0.153019172	NM	
Copper, total	ug/L	0.076	0.07667855	0.1533571	0.2293571	48.3	
Cyanide, total	mg/L /100ml	0.015	0.00714796	0.0142959	0.02929592	0.0962	
Fecal Coliform Fluoride, total	/100mL	ND 1.19	ND 0.386910842	ND	ND	NM	
Iron, total	mg/L	6.881818182	5.389585918	0.7738217	1.963821685	0.4043	
Lead, total	ug/L ug/L	0.036536364	0.081449914	10.779172 0.1628998	17.66099002 0.199436192	19750 35.1	
Magnesium, total	mg/L	69.7777778	29.79839668	59.596793	129.3745711	NM	
Manganese, total	ug/L	0.067363636	0.066542126	0.1330843	0.200447889	219.9	
Mercury, total	ug/L	0.0007303030	0.000342120	0.000978	0.001849203	1	
Nickel, total	ug/L	0.443181818	0.290433062	0.5808661	1.024047943	636.8	
Nitrate as N, total	mg/L	4.25	0.919238816	1.8384776	6.088477631	NM	
pH	s.u.	7.7275	0.348824557	0.6976491	8.425149114	NM	
Phosphorus, total	mg/L	16.52727273	6.602589024	13.205178	29.73245078	NM	
Potassium, total	mg/L	570	332.2649545	664.52991	1234.529909	NM	
Selenium, total	ug/L	0.088333333	0.068640367	0.1372807	0.225614068	NM	
Silver, total	ug/L	ND	ND	ND	ND	5	
Sodium, total	mg/L	2027.777778	1089.997452	2179.9949	4207.772681	NM	
Specific Conductance	umhos/cm	10815	5822.539946	11645.08	22460.07989	NM	
Sulfate, total	mg/L	12.11666667	13.28704883	26.574098	38.69076433	NM	
Thallium, total	ug/L	0.0014	0	0	0.0014	NM	
Tin, total	ug/L	50.1494	111.7199388	223.43988	273.5892776	NM	
Total Dissolved Solids	mg/L	10418.18182	4931.291551	9862.5831	20280.76492	NM	
Total Organic Carbon	mg/L	1591.111111	1323,475013	2646.95	4238.061138	NM	
Total Suspended Solids	mg/L	184.0909091	470.1515616	940.30312	1124.394032	NM	
Vanadium, total	ug/L	0.0578	0.03197642	0.0639528	0.12175284	NM	
Zinc, total	ug/L	9.115272727	29.81166018	59.62332	68.73859308	398.5	
Organics					1		
1,1,1,2-Tetrachloroethane	ug/L	ND	ND	ND	ND	NM	
1,1,1-Trichloroethane	ug/L	ND	ND	ND	ND	NM	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND	ND	ND	NM	
1,1,2-Trichloroethane	ug/L ug/L	ND ND	ND ND	ND ND	ND ND	NM NM	
1,1-Dichloroethene	ug/L	ND ND	ND ND	ND ND	ND ND	NM	
1,1-Dichloropropene	ug/L	ND ND	ND	ND	ND	NM	
1,2,3-Trichlorobenzene	ug/L	ND	ND	ND	ND	NM	
1,2,3-Trichloropropane	ug/L	ND	ND	ND	ND	NM	
1,2,4-Trichlorobenzene	ug/L	ND 26.2	ND 40 COCEAGOR	ND 20 052225	ND 75 45000500	NM	
1,2,4-Trimethylbenzene	ug/L	36.2 ND	19.62651268 ND	39.253025	75.45302536	47.9 NM	
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane	ug/L ug/L	ND ND	ND ND	ND ND	ND ND	NM NM	
1,2-Dichlorobenzene	ug/L	3.3	0.707106781	1.4142136	4.714213562	NM	
1,2-Dichloroethane	ug/L	ND ND	ND	ND ND	ND ND	NM	
1,2-Dichloropropane	ug/L	ND	ND	ND _	ND	NM	
1,3,5-Trimethylbenzene	ug/L	13.95	7.439310004	14.87862	28.82862001	18.7	
1,3-Dichlorobenzene	ug/L	ND	ND	ND	ND_	NM	
1,3-Dichloropropane	ug/L	ND ND	ND NB	ND_	ND	NM	
1,3-Dichloropropene 1,4-Dichlorobenzene	ug/L ug/L	ND 13.9	ND 5.813776741	ND	ND	NM	
1-Propanol	ug/L ug/L	ND	5.813776741 ND	11.627553 ND	25.52755348 ND	28.3 NM	
2,2-Dichloropropane	ug/L	ND ND	ND ND	ND	ND ND	NM	
		· · · · · · · · · · · · · · · · · · ·					

Table 8 Northern Unit Leachate Comparison to Initial Source Concentrations

Winnebago Reclamation Service Permit Renewal Application

		Maan Laa-b-t-				Source	
Parameter	Units	Mean Leachate Result	Standard Deviation (STDV)	(2xSTDV)	Mean + (2xSTDV)	Concentration From Initial	
						GIA	
2,4,6-Trichlorophenol	ug/L	ND	ND	ND	ND	NM	
2,4-D	ug/L	3.6	ND	ND	ND	NM	
2,4-Dichlorophenol	ug/L	ND	ND	ND	ND	NM	
2.4-Dimethylphenol	ug/L	ND ND	ND ND	ND ND	ND.	340.9	
2,4-Dinitrophenol 2,4-Dinitrotoluene	ug/L	ND ND	ND ND	ND ND	ND ND	NM NM	
2.6-Dinitrotoluene	ug/L ug/L	ND ND	ND ND	ND ND	ND ND	NM	
2-Butanone	ug/L	292	ND ND	ND ND	ND ND	2.5	
2-Chloroethyl vinyl ether	ug/L	ND ND	ND ND	ND ND	ND ND	NM	
2-Chloronaphthalene	ug/L	ND	ND	ND	ND	NM	
2-Chlorophenol	ug/L	ND	ND	ND	ND	NM	
2-Chlorotoluene	ug/L	ND	ND	ND	ND	NM	
2-Hexanone	ug/L	99	ND	ND	ND	NM	
2-Nitrophenol	ug/L	ND ND	ND ND	ND	ND	NM	
2-Propanol	ug/L	ND ND	ND	ND ND	ND	NM	
3,3'-Dichlorobenzidine	ug/L	ND ND	ND ND	ND	ND ND	NM	
4,4'-DDD 4,4'-DDE	ug/L ug/L	ND ND	ND ND	ND ND	ND ND	NM NM	
4,4-DDT	ug/L ug/L	ND ND	ND ND	ND ND	ND ND	NM	
4,6-Dinitro-2-methylphenol	ug/L	ND ND	ND ND	ND ND	ND ND	NM	
4-Bromophenyl-phenylether	ug/L ug/L	ND	ND ND	ND ND	ND ND	NM	
4-Chlorophenyl-phenyl Ether	ug/L	ND	ND ND	ND	ND ND	NM	
4-Chlorotoluene	ug/L	ND	ND	ND I	ND ND	NM	
4-Methyl-2-pentanone	ug/L	29.2	21.38036482	42.76073	71.96072965	22.5	
4-Methylphenol	ug/L	1333.333333	1553.61943	3107.2389	4440.572193	NM	
4-Nitrophenol	ug/L	ND	ND	ND	ND	NM	
Acenaphthene	ug/L	ND	ND	ND	ND	NM	
Acetone	ug/L	770.6666667	1170.6261	2341.2522	3111.918867	103.7	
Alachlor	ug/L	ND	ND	ND	ND	NM	
Aldicarb	ug/L	15.93333333	8.05067285	16,101346	32.03467903	NM	
Aldrin	ug/L	ND ND	ND	ND	ND	NM	
alpha-BHC	ug/L	ND	ND	ND	ND ND	NM	
AnthraceneAnthracene	ug/L	ND ND	ND ND	ND ND	ND ND	NM NM	
Atrazine Benzene	ug/L ug/L	5.025	1.519594244	3.0391885	8.064188488	2.5	
Benzo(a)anthracene	ug/L	ND ND	ND	ND	ND	NM	
Benzo(a)pyrene	ug/L	ND ND	ND ND	ND	ND ND	NM	
Benzo(b)fluoranthene	ug/L	ND	ND	ND	ND ND	NM	
Benzo(g,h,i)perylene	ug/L	ND	ND	ND	ND	NM	
Benzo(k)fluoranthene	ug/L	ND	ND	ND .	ND	NM	
beta-BHC	ug/L	ND	ND	ND	ND	NM	
bis(2-Chloroethoxy)methane	ug/L	ND	ND	ND	ND	NM	
bis(2-Chloroethyl) Ether	ug/L	ND	ND	ND	ND	NM	
bis(2-Chloroisopropyl)Ether	ug/L	ND	ND	ND	ND	NM	
bis(2-Ethylhexyl)phthalate	ug/L	820	537.4011537	1074.8023	1894.802307	160.1	
bis(Chloromethyl) ether	ug/L	ND ND	ND	ND	ND	NM	
Bromobenzene Bromochloromethane	ug/L	ND ND	ND	ND	ND	NM	
Bromodichloromethane	ug/L ug/L	ND ND	ND ND	ND ND	ND ND	NM NM	
Bromoform	ug/L	ND ND	ND ND	ND ND	ND ND	NM	
Bromomethane	ug/L	ND ND	ND ND	ND	ND ND	NM	
Butylbenzylphthalate	ug/L	ND ND	ND ND	ND	ND ND	NM	
Carbofuran	ug/L	ND	ND	ND	ND	NM	
Carbon Disulfide	ug/L	2	NA	NA	NA	NM	
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	NM	
Chlordane	ug/L	ND	ND	ND	ND	NM	
Chlorobenzene	ug/L	2.533333333	1.4571662	2.9143324	5.447665733	NM	
Chloroethane	ug/L	ND	ND	ND	ND	NM	
Chloroform	ug/L	ND ND	ND ND	ND ND	ND ND	NM	
Chloromethane Chrysene	ug/L	ND ND	ND ND	ND ND	ND ND	NM NM	
cis-1,2-Dichloroethene	ug/L ug/L	12.3	7.726146085	15.452292	ND 27.75229217	2.5	
delta-BHC	ug/L ug/L	12.3 ND	7.726146085 ND	15.452292 ND	27.75229217 ND	NM	
Dibenzo(a.h)anthracene	ug/L	ND ND	ND ND	ND ND	ND ND	NM	
Dibromochloromethane	ug/L	ND	ND ND	ND ND	ND ND	NM	
Dibromomethane	ug/L	ND ND	ND ND	ND ND	ND ND	NM	
Dichlorodifluoromethane	ug/L	ND	ND ND	ND ND	ND	NM	
Dieldrin	ug/L	ND ND	ND ND	ND ND	ND	NM	
Diethylphthalate	ug/L	ND	ND	ND	ND	NM	
Dimethylphthalate	ug/L	ND	ND	ND	ND	NM	
Di-n-butylphthalate	ug/L	ND	ND	ND	ND	NM	
Di-n-octylphthalate	ug/L	ND	ND	ND	ND	NM	
Dioxin Screen	ug/L	ND	ND	ND	ND	NM	
Endosulfan I	ug/L	0.83	. 0	0	0.83	NM	
Endosulfan II	ug/L	ND	ND	ND	ND ND	NM	
Cadaaultaa Cultala	ug/L	ND	ND	ND	ND	NM	
Endosulfan Sulfate Endrin	ug/L	ND	ND	ND	ND	NM	
	ug/L ug/L ug/L	ND ND ND	ND ND ND	ND ND ND	ND ND ND	NM NM NM	

Table 8 Northern Unit Leachate Comparison to Initial Source Concentrations

Winnebago Reclamation Service Permit Renewal Application

		r		I***			
		Mana Lanabata				Source	
Parameter	Units	Mean Leachate	Standard Deviation (STDV)	(2xSTDV)	Mean + (2xSTDV)	Concentration	
	ľ	Result	•			From Initial	
Fluoranthene	ug/L	120	0	0	120	GIA NM	
Fluorene	ug/L	ND ND	ND ND	ND	ND ND	NM	
gamma-BHC (Lindane)	ug/L	ND ND	ND ND	ND	ND ND	NM	
Heptachlor	ug/L	ND ND	ND ND	ND	ND	NM	
Heptachlor Epoxide	ug/L	ND ND	ND ND	ND	ND ND	NM	
Hexachlorobenzene	ug/L	ND ND	ND ND	ND ND	ND ND	NM	
Hexachlorobutadiene	ug/L	ND ND	ND ND	ND ND	ND ND	NM	
Hexachlorocyclopentadiene	ug/L	ND	ND ND	ND	ND ND	NM	
Hexachloroethane	ug/L	ND ND	ND ND	ND	ND ND	NM	
Hexane Ext. Material (HEM) by SPE	mg/L	29.98333333	13.28162892	26.563258	56.54659117	NM	
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	ND	ND	NM	
llodomethane	ug/L	ND	ND ND	ND	ND	NM NM	
Isopropylbenzene	ug/L	4.925	1.941434178	3.8828684	8.807868356	NM NM	
	ug/L	109.5	48.59526726	97.190535	206,6905345	NM	
m,p-Xylene Methoxychlor	ug/L	ND	46.59526126 ND	ND	ND	NM	
Methylene Chloride	ug/L	ND ND	ND ND	ND ND	ND ND	NM	
m-Xylene	ug/L	115	7.071067812	14.142136	129.1421356	NM	
Naphthalene	ug/L ug/L	ND	7.071067612 ND	ND	ND	79.1	
In-Butanol	ug/L ug/L	ND ND	ND ND	ND ND	ND ND	79.1 NM	
		4.733333333	3.700450423	7.4009008	12.13423418	NM NM	
n-Butylbenzene	ug/L						
Nitrobenzene	ug/L	ND ND	ND ND	ND	ND ND	NM	
N-Nitrosodimethylamine	ug/L			ND	ND ND	NM	
N-Nitroso-di-n-propylamine	ug/L	ND ND	ND ND	ND ND	ND ND	NM	
N-Nitrosodiphenylamine	ug/L	6.275	ND 3.859512059	7.7190241		NM 5.6	
n-Propylbenzene	ug/L				13.99402412		
o-Xylene	ug/L	48.33333333	22.37558193	44.751164	93.08449719	NM	
Parathion	ug/L	ND ND	ND ND	ND	ND	NM	
Pentachlorophenol	ug/L	ND ND	ND ND	ND	ND	NM	
Phenanthrene	ug/L	0.767272727	ND 0.70000007	ND 4 45044	ND 0.005740744	61.8	
Phenolics	ug/L		0.729220007	1.45844	2.225712741	61.1	
p-Isopropyltoluene	ug/L	41.2 ND	14.41180072	28.823601	70.02360144	0.0375	
Polychlorinated Biphenyls(PCBs)	ug/L	115	ND 7.074007040	ND 44.440400	ND 100 1101255	NM	
p-Xylene	ug/L	130	7.071067812	14.142136	129.1421356	NM	
Pyrene	ug/L	130	0 0	0	130	NM	
sec-Butylbenzene	ug/L	ND 1	ND ND	ND ND	1 ND	NM NM	
Silvex	ug/L	3.55	0.636396103	1.2727922	4.822792206	NM NM	
Styrene	ug/L	3.55 ND					
tert-Butylbenzene	ug/L	ND ND	ND ND	ND	ND	NM	
Tetrachloroethene	ug/L		ND	ND	ND	NM 1200.4	
Tetrahydrofuran	ug/L	352.8571429	135.8570677	271.71414	624.5712784	1298.4	
Toluene	ug/L	110.1428571	66.89899992	133.798	243.940857	119.2	
Toxaphene	ug/L	ND ND	ND ND	ND	ND ND	NM	
trans-1,2-Dichloroethene	ug/L	ND ND	ND	ND ND	ND ND	NM	
trans-1,3-Dichloropropene	ug/L	ND ND	ND ND	ND	ND ND	NM	
trans-1,4-Dichloro-2-butene	ug/L	ND ND	ND ND	ND		NM	
Trichloroethene Trichlorofluoromethane	ug/L ug/L	ND ND	ND ND	ND ND	ND ND	NM NM	
		ND ND	ND ND	ND	ND ND	NM NM	
Vinyl Chlorida	ug/L	4.6	ND ND		ND ND		
Vinyl Chloride	ug/L	160.6	78.65621399	ND	317,912428	28.5	
Xylenes (Total)	ug/L	100.0	/8.00021399	157.31243	317.912428	145.9	

Notes: ND - Not Detected NM - Not Modeled

Table 9 – GMZ Parameters

Table 9 Northern Unit GMZ Parameters

Winnebago Landfill Permit Renewal Tables

Quarterly
Ammonia, dissolved
Ammonia, total
Arsenic, dissolved
Arsenic, total
Barium, total
Boron, dissolved
Boron, total
Chloride, dissolved
Chloride, total
Fluoride, total
Nitrate, dissolved
Nitrate, total
Potassium, total
Sodium, total
Annual - Second Quarter
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,4-Dichlorobenzene
Ethylbenzene
Tetrahydrofuran

Table 10 - Northern Unit Leachate Comparisons To Contaminant Transport Model

Table 10 Northern Unit Leachate Comparison to Contaminent Transport Model

Parameter	Units	Max Leachate Result	Mean Leachate Result	Standard Deviation (STDV)	(2xSTDV)	Mean + (2xSTDV)	Source Concentration From Initial GIA	Model Prediction Factor at ZOA	Predicted Conc. At ZOA (Max * MPF)	AGQS	> than AGQS?
Inorganics							J				
Ammonia as N, total	mg/l	4500	2427.00	1379.11445	2758.2289	5185.2289	20263,1666	0.000242	1.089	900	Pass
Arsenic, total	ug/L	1.8	0.76	0.560969939	1.1219399	1.877394424	10	0.000242	0.0004356	10	Pass
Barium, total	ug/L	0.84	0.55	0.227544202	0.4550884	1.003270221	828.3	0.000242	0.00020328	225180.6	Pass
Boron, total	ug/L	15	9.76	4.557442021	9.114884	18.8704396	NM	0.000242	0.00363	200	Pass
Chloride, total	mg/l	7600	3678.78	2577.532491	5155.065	8833.84276	NM	0.000242	1.8392	87.51	Pass
Ethylbenzene	ug/L	86	56.33	23.33809475	46.67619	103.0095228	49	0.000242	0.020812	5	Pass
Fluoride, total	mg/l	1.6	1,19	0.386910842	0.7738217	1.963821685	0.4043	0.000242	0.0003872	273.35	Pass
Nitrate as N, total	mg/l	4.9	4.25	0.919238816	1.8384776	6.088477631	NM	0.000242	0.0011858	11.74	Pass
Potassium, total	mg/l	1100	570.00	332.2649545	664.52991	1234.529909	NM	0.000242	0.2662	29	Pass
Sodium, total	mg/l	3500	2027.78	1089.997452	2179.9949	4207.772681	NM	0.000242	0.847	164.79	Pass
Sulfate, total	mg/l	36	12.12	13.28704883	26,574098	38,69076433	NM	0.000242	0.008712	179.37	Pass
Alkalinity, Bicarbonate as CaCO3	mg/L	15000	8122.222222	3970.761192	7941.5224	16063.74461	NM	0.000242	3.63	960	Pass
Aluminum, total	ug/L	5	0.97444444	1.599461715	3.1989234	4.173367874	NM	0.000242	0.00121	66602.6	Pass
Antimony, total	ug/L	0.1	0.035888889	0.03109841	0.0621968	0.098085709	NM	0.000242	0.0000242	5	Pass
Bervllium, total	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
Biochemical Oxygen Demand	mg/L	1000	446.8181818	269.1493333	538.29867	985.1168485	NM	0.000242	0.242	4.04	Pass
Calcium, total	mg/L	130	46.2444444	35.68245756	71.364915	117.6093596	NM	0.000242	0.03146	3093	Pass
•											
Chemical Oxygen Demand	mg/L	11000	5833.636364	2878.931304	5757.8626	11591.49897	NM	0.000242	2.662	50.04	Pass
Cobalt, total	ug/L	0.13	0.077666667	0.037676252	0.0753525	0.153019172	NM	0.000242	0.00003146	50	Pass
Fecal Coliform	/100mL	ND	ND	ND	ND	ND	NM ;	0.000242	ND	NA	Pass
Magnesium, total	mg/L	100	69.7777778	29.79839668	59.596793	129.3745711	NM	0.000242	0.0242	109,5	Pass
pH	s.u.	8.34	7.7275	0.348824557	0.6976491	8.425149114	NM	0.000242	0.00201828	5.4-8.1	Pass
Phosphorus, total	mg/L	24	16.52727273	6.602589024	13.205178	29.73245078	NM	0.000242	0.005808	NA	Pass
Selenium, total	ug/L	0.23	0.088333333	0.068640367	0.1372807	0.225614068	NM	0.000242	0.00005566	4	Pass
Specific Conductance	umhos/cm	19000	10815	5822.539946	11645.08	22460.07989	NM	0.000242	4.598	3820	Pass
Thallium, total	ug/L	0.0014	0.0014	0	0	0.0014	NM	0.000242	3.388E-07	200	Pass
	— <u> </u>	250	50.1494	111.7199388	223.43988	273.5892776	NM		0.0605	NA	Pass
Tin, total	ug/L							0.000242			
Total Dissolved Solids	mg/L	21000	10418.18182	4931.291551	9862.5831	20280.76492	NM	0.000242	5.082	1755.87	Pass
Total Organic Carbon	mg/L	4700	1591.111111	1323.475013	2646.95	4238.061138	NM	0.000242	1.1374	4301.02	Pass
Total Suspended Solids	mg/L	1600	184.0909091	470.1515616	940.30312	1124.394032	NM	0.000242	0.3872	NA	Pass
Vanadium, total	ug/L	0.1	0.0578	0.03197642	0.0639528	0.12175284	NM	0.000242	0.0000242	100	Pass
Organics											
1,1,1-Trichloroethane	ug/l	ND	ND	ND	ND	ND	NM	0.000242	ND	12	Pass
1,1-Dichloroethane	ug/l	ND	ND	ND	ND	ND	NM	0.000242	ND	31	Pass
1,2,3-Trichlorobenzene	ug/l	ND	ЙN	ND	ND	ND	NM	0.000242	ND	5	Pass
1,2,4-Trichlorobenzene	ug/l	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
1,2-Dichlorobenzene	ug/l	3.8	3.3	0.707106781	1.4142136	4.714213562	NM	0.000242	0.0009196	5	Pass
1,4-Dichlorobenzene	ug/L	23	13.90	5.813776741	11.627553	25.52755348	28.3	0.000242	0.005566	5	Pass
Acetone	ug/L_	2800	770.67	1170.6261	2341.2522	3111.918867	103.7	0.000242	0.6776	10	Pass
Benzene	ug/l	7.2	5.025	1.519594244	3.0391885	8.064188488	2.5	0.000242	0.0017424	2.8	Pass
Chlorobenzene	ug/l	4.2	2.53	1.4571662	2.9143324	5.447665733	NM	0.000242	0.0010164	5	Pass
cis-1,2-Dichloroethene	ug/L	22	12.30	7.726146085	15.452292	27.75229217	2.5	0.000242	0.005324	5	Pass
Phenolics	ug/l	2.8	0.767272727	0.729220007	1.45844	2.225712741	61.1	0.000242	0.0006776	100	Pass
Tetrachloroethene	ug/l	ND	ND	ND	ND	ND	NM	0.000242	ND	26	Pass
Tetrahydrofuran	ug/L ug/l	600 ND	352.86 ND	135.8570677 ND	271.71414 ND	624.5712784 ND	1298.4 NM	0.000242 0.000242	0.1452 ND	42 66	Pass
Trichloroethene											Pass

Table 10 Northern Unit Leachate Comparison to Contaminent Transport Model

Winnebago Landfill Permit Renewal Application

Parameter	Units	Max Leachate Result	Mean Leachate Result	Standard Deviation (STDV)	(2xSTDV)	Mean + (2xSTDV)	Source Concentration From Initial GIA	Model Prediction Factor at ZOA	Predicted Conc. At ZOA (Max * MPF)	AGQS	> than AGQS?
1,1,2,2-Tetrachloroethane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
1,1,2-Trichloroethane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
1,1-Dichloroethene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	2.5	Pass
1,1-Dichloropropene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
1,2,3-Trichloropropane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
1,2-Dibromo-3-chloropropane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
1,2-Dibromoethane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
1,2-Dichloroethane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	2.5	Pass
1,2-Dichloropropane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	6	Pass
1,3-Dichlorobenzene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
1,3-Dichloropropane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
1,3-Dichloropropene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
1-Propanol	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	1000	Pass
2,2-Dichloropropane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
2,4,6-Trichlorophenol	ug/L	ND.	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
2,4-D	ug/L	3.6	3.6	0	0	3.6	NM	0.000242	0.0008712	2	Pass
2,4-Dichlorophenol	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
2,4-Dinitrophenol	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
2,4-Dinitrotoluene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
2,6-Dinitrotoluene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
2-Chloroethyl vinyl ether	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
2-Chloronaphthalene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
2-Chlorophenol	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
2-Chlorotoluene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
2-Hexanone	ug/L	99	99	ND	ND	ND	NM	0.000242	ND	10	Pass
2-Nitrophenol	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
2-Propanol	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	1000	Pass
3,3'-Dichlorobenzidine	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
4,4'-DDD	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
4,4'-DDE	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
4,4'-DDT	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	0.25	Pass
4,6-Dinitro-2-methylphenol	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
4-Bromophenyl-phenylether	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
4-Chlorophenyl-phenyl Ether	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
4-Chlorotoluene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
4-Methylphenol	ug/L	3100	1333.333333	1553.61943	3107.2389	4440.572193	NM	0.000242	0.7502	10	Pass
4-Nitrophenol	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
Acenaphthene	ug/L	ND	ND	ND .	ND	ND	NM	0.000242	ND	NA	Pass
Alachlor	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	2	Pass
Aldicarb	ug/L	22	15.93333333	8.05067285	16.101346	32.03467903	NM	0.000242	0.005324	1	Pass
Aldrin	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	0.5	Pass
alpha-BHC	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
Anthracene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
Atrazine	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	3	Pass
Benzo(a)anthracene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass

Table 10 Northern Unit Leachate Comparison to Contaminent Transport Model

Winnebago Landfill Permit Renewal Application

Parameter	Units	Max Leachate Result	Mean Leachate Result	Standard Deviation (STDV)	(2xSTDV)	Mean + (2xSTDV)	Source Concentration From Initial GIA	Model Prediction Factor at ZOA	Predicted Conc. At ZOA (Max * MPF)	AGQS	> than AGQS?
Benzo(a)pyrene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	10	Pass
Benzo(b)fluoranthene	ug/L	ND	ND	ND	ND	ND ·	MM	0.000242	ND	NA	Pass
Benzo(g,h,i)perylene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
Benzo(k)fluoranthene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
beta-BHC	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
bis(2-Chloroethoxy)methane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
bis(2-Chloroethyl) Ether	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
bis(2-Chloroisopropyl)Ether	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
bis(Chloromethyl) ether	ug/L	ND	ND	ND ND	ND	ND	NM	0.000242	ND	NA	Pass
Bromobenzene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
Bromochloromethane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
Bromodichloromethane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
Bromoform	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
Bromomethane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	10	Pass
Butylbenzylphthalate	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
Carbofuran	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	10	Pass
Carbon Disulfide	ug/L	2	2	0	0	2	NM	0.000242	0.000484	5	Pass
Carbon Tetrachloride	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
Chlordane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	1.2	Pass
Chloroethane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	10	Pass
Chloroform	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
Chloromethane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	10	Pass
Chrysene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
delta-BHC	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
Dibenzo(a,h)anthracene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
Dibromochloromethane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
Dibromomethane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
Dichlorodifluoromethane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	19	Pass
Dieldrin	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	0.25	Pass
Diethylphthalate	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	100	Pass
Dimethylphthalate	ug/L	ND	ND ND	ND	ND	ND	NM	0.000242	ND	100	Pass
Di-n-butylphthalate	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	100	Pass
Di-n-octylphthalate	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
Dioxin Screen	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
Endosulfan I	ug/L	0.83	0.83	0	0	0.83	NM	0.000242	0.00020086	NA	Pass
Endosulfan II	ug/L	ND	ND ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
Endosulfan Sulfate	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
Endrin	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	0.25	Pass
Endrin Aldehyde	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
Ethyl Acetate	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
Fluoranthene	ug/L	120	120	0	0	120	NM	0.000242	0.02904	NA NA	Pass
Fluorene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA NA	Pass
gamma-BHC (Lindane)	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	0.5	Pass
Heptachlor	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	0.5	Pass
Heptachlor Epoxide	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	0.5	Pass

Table 10 Northern Unit Leachate Comparison to Contaminent Transport Model

Winnebago Landfill Permit Renewal Application

Parameter	Units	Max Leachate Result	Mean Leachate Result	Standard Deviation (STDV)	(2xSTDV)	Mean + (2xSTDV)	Source Concentration From Initial GIA	Model Prediction Factor at ZOA	Predicted Conc. At ZOA (Max * MPF)	AGQS	> than AGQS?
Hexachlorobenzene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
Hexachlorobutadiene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	100	Pass
Hexachlorocyclopentadiene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	10	Pass
Hexachloroethane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
Hexane Ext. Material (HEM) by SPE	mg/L	48	29.98333333	13.28162892	26.563258	56.54659117	NM	0.000242	0.011616	5	Pass
Indeno(1,2,3-cd)pyrene	ug/Ĺ	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
Iodomethane	ug/L	ND	ND	ND ND	ND	ND	NM	0.000242	ND	10	Pass
Isopropylbenzene	ug/L	7.4	4.925	1.941434178	3.8828684	8.807868356	NM	0.000242	0.0017908	5	Pass
m,p-Xylene	ug/L	180	109.5	48.59526726	97.190535	206.6905345	NM	0.000242	0.04356	5	Pass
Methoxychlor	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	1.2	Pass
Methylene Chloride	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	8	Pass
m-Xylene	ug/L	120	115	7.071067812	14.142136	129.1421356	NM	0.000242	0.02904	5	Pass
n-Butanol	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	1000	Pass
n-Butylbenzene	ug/L	9	4.733333333	3.700450423	7.4009008	12.13423418	NM	0.000242	0.002178	5	Pass
Nitrobenzene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
N-Nitrosodimethylamine	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
N-Nitroso-di-n-propylamine	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	NA	Pass
N-Nitrosodiphenylamine	ug/L	ND	ND ND	ND_	ND	ND	NM	0.000242	ND	NA	Pass
o-Xylene	ug/L	79	48.33333333	22.37558193	44.751164	93.08449719	NM	0.000242	0.019118	5	Pass
Parathion	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	1	Pass
Pentachlorophenol	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	500	Pass
Polychlorinated Biphenyls(PCBs)	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	2.5	Pass
p-Xylene	ug/L	120	115	7.071067812	14.142136	129.1421356	NM	0.000242	0.02904	5	Pass
Pyrene	ug/L	130	130	0	0	130	NM ·	0.000242	0.03146	NA	Pass
sec-Butylbenzene	ug/L	1	1	0	0	1	NM	0.000242	0.000242	5	Pass
Silvex	ug/L	ND	ND	ND ND	ND	ND	NM	0.000242	,ND	1	Pass
Styrene	ug/L	4	3.55	0.636396103	1.2727922	4.822792206	NM	0.000242	0.000968	10	Pass
tert-Butylbenzene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
Toxaphene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	2.5	Pass
trans-1,2-Dichloroethene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
trans-1,3-Dichloropropene	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
trans-1,4-Dichloro-2-butene	ug/L	ND	ND	ND ND	ND	ND	NM	0.000242	ND	5	Pass
Trichlorofluoromethane	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	5	Pass
Vinyl Acetate	ug/L	ND	ND	ND	ND	ND	NM	0.000242	ND	10	Pass

Notes:

NA - No AGQS Value ND - Not Detected NM - Not Modeled **Figures**

Figure 1 – Area Location Map

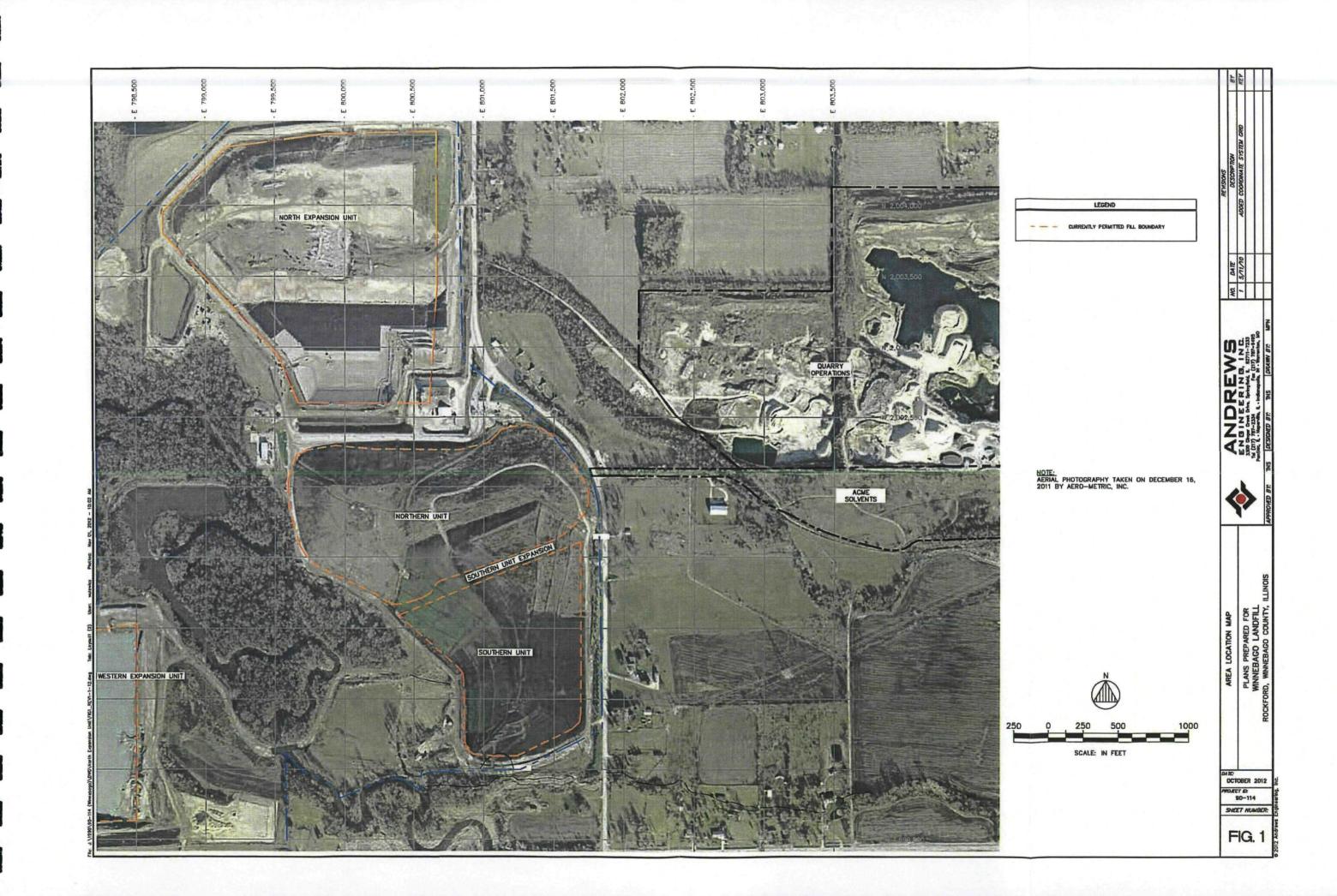


Figure 2 – Site Location Map

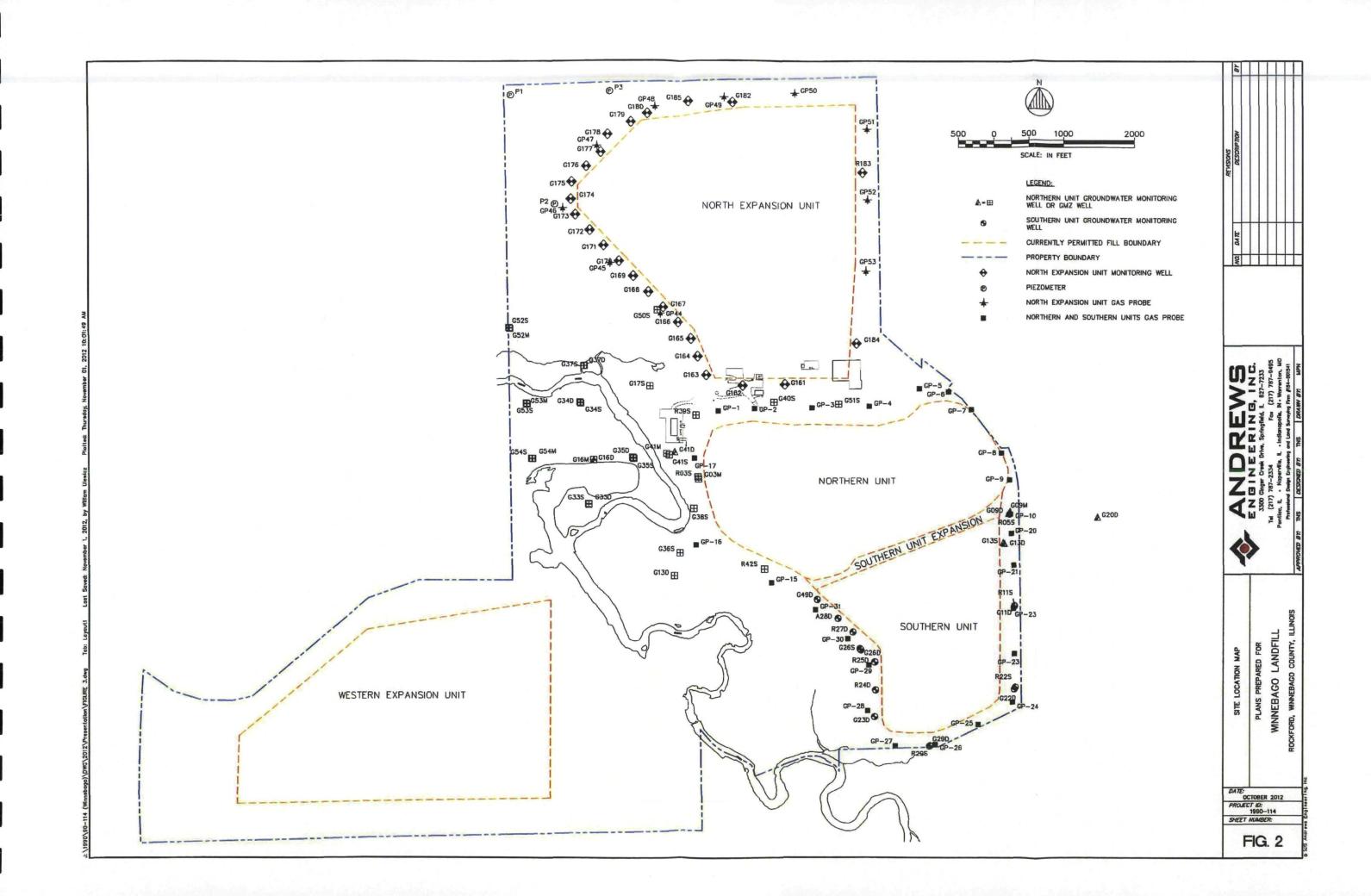


Figure 3 – 2012 Upper Zone GMZ Boundary Map

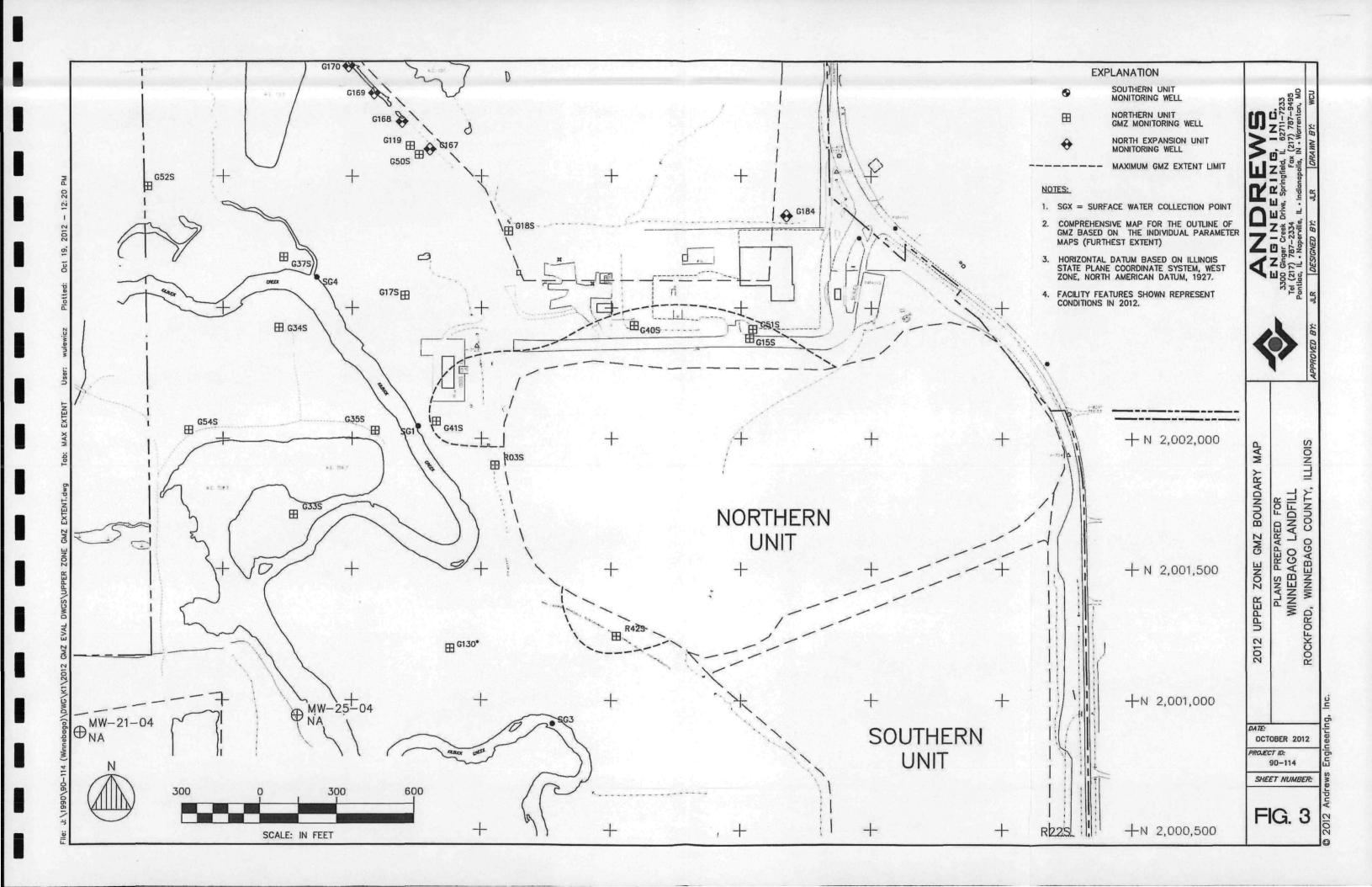
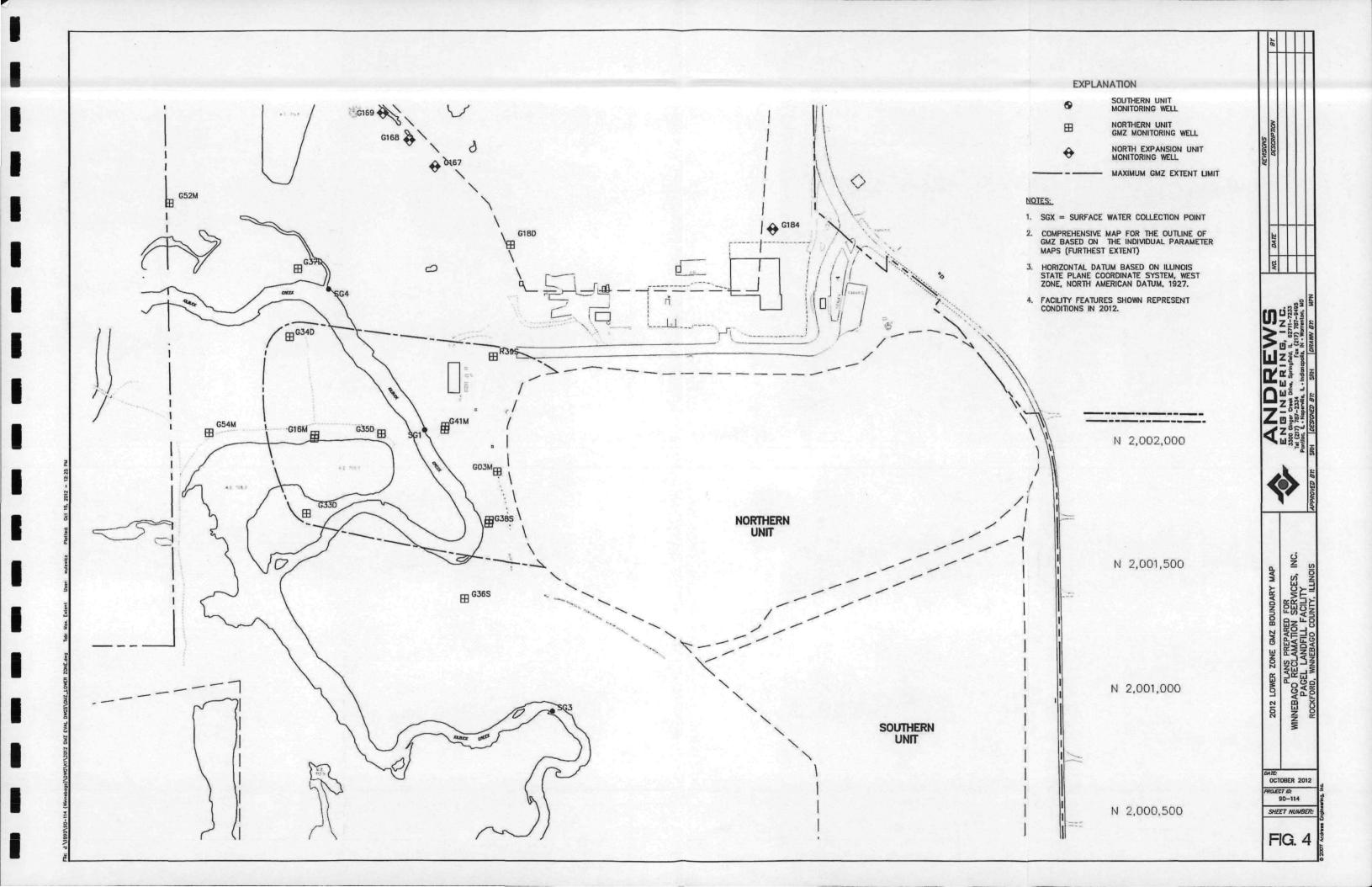
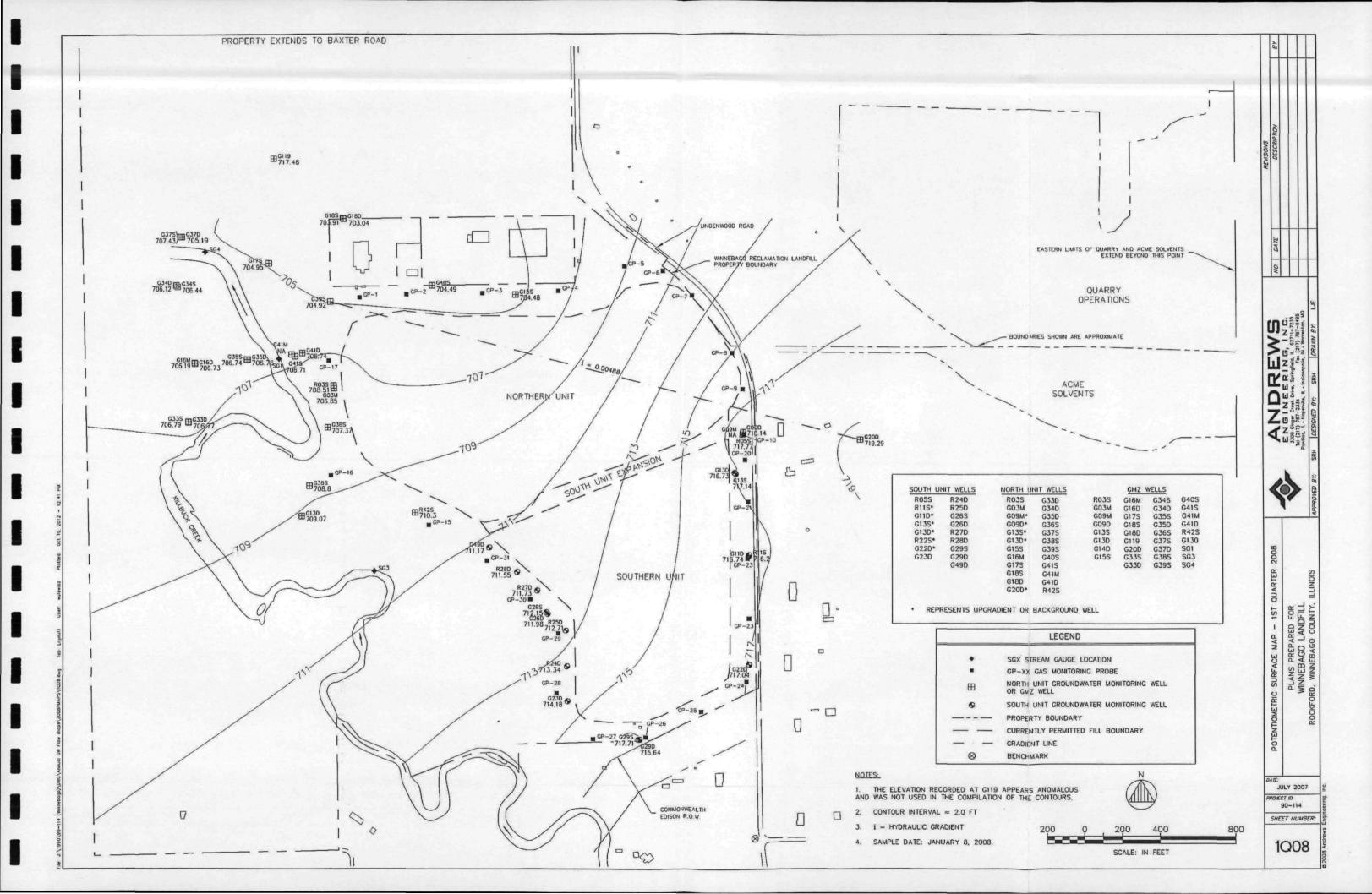


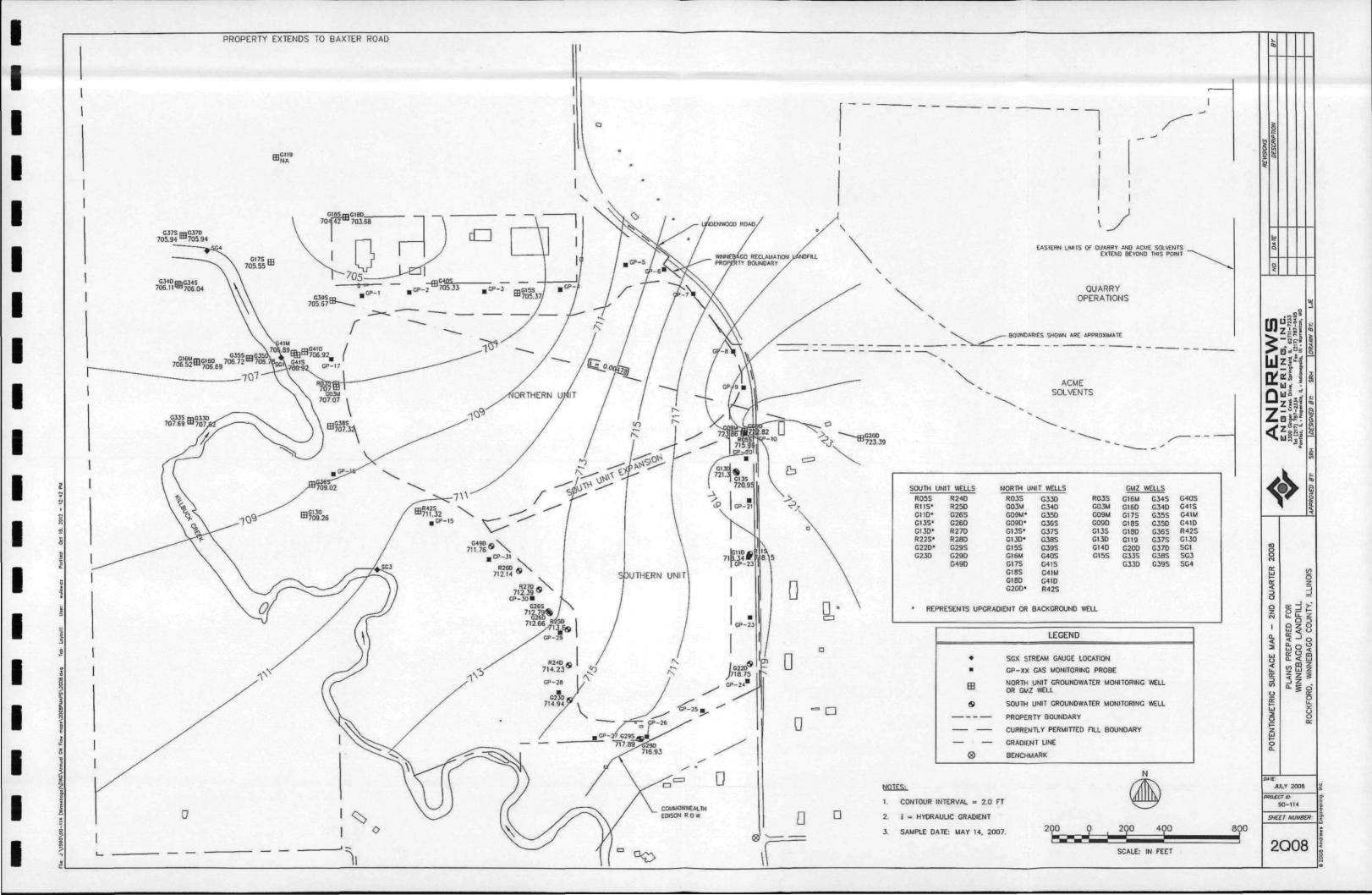
Figure 4 – 2012 Lower Zone GMZ Boundary Map

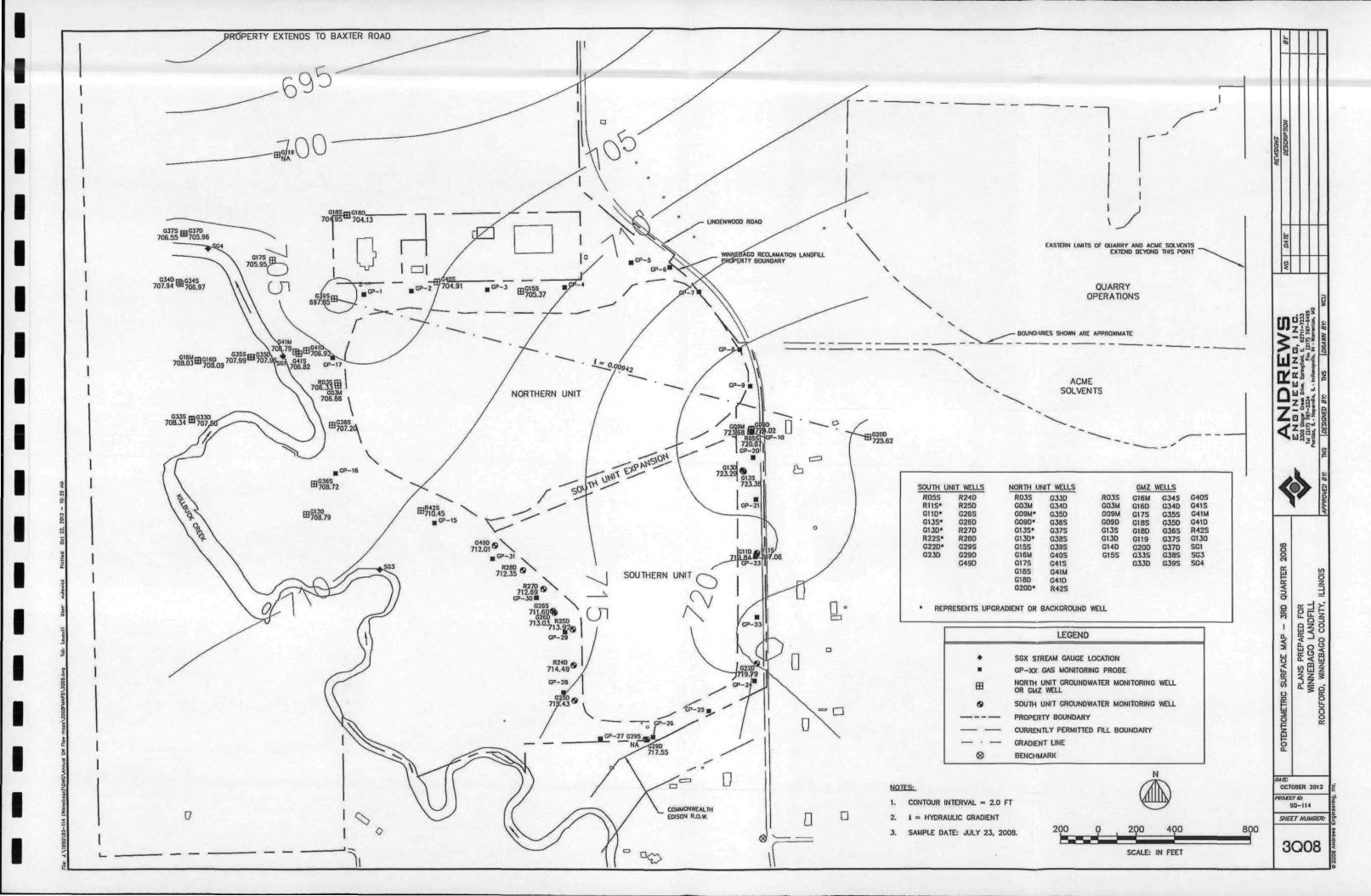


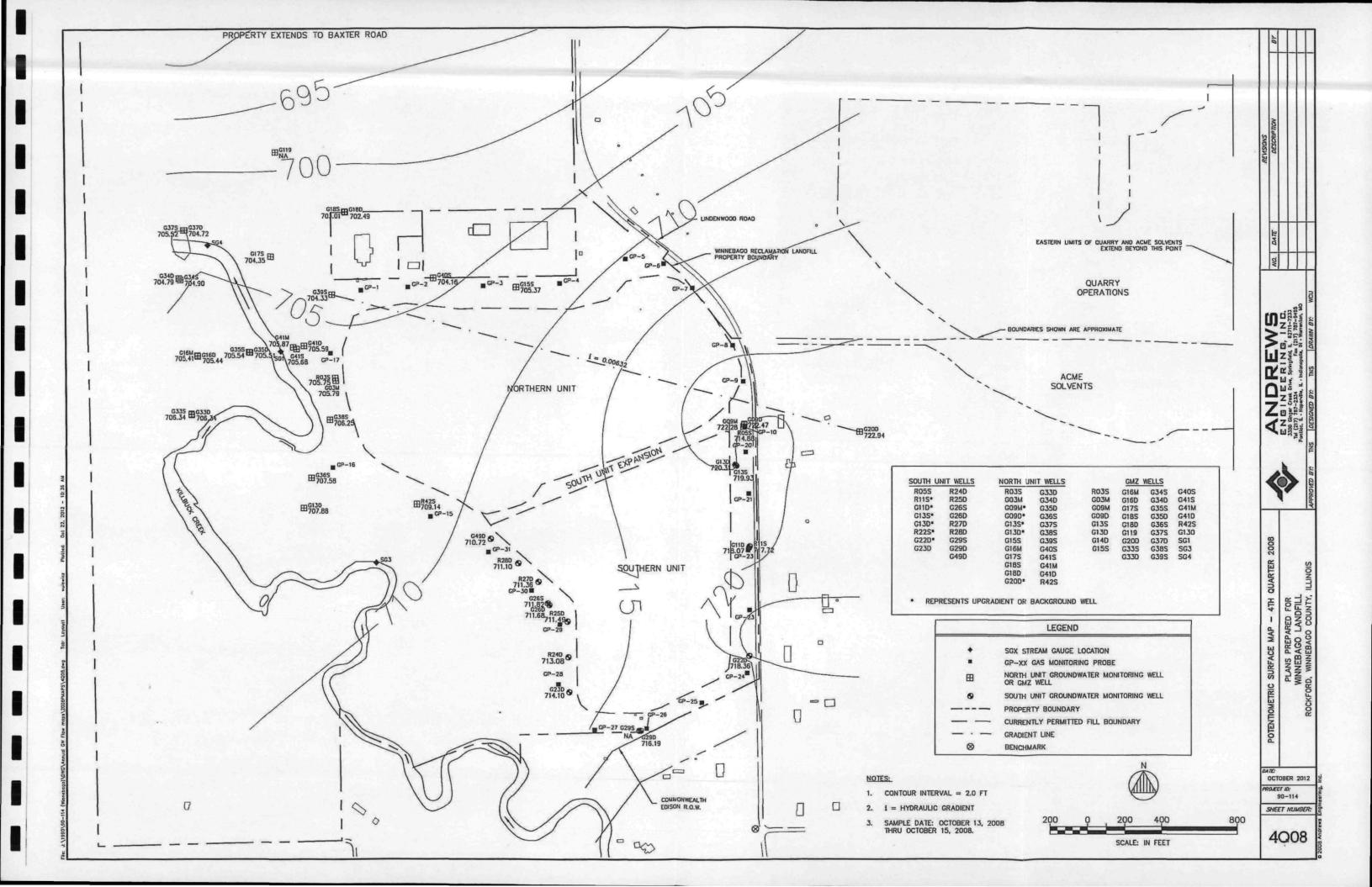
APPENDICES

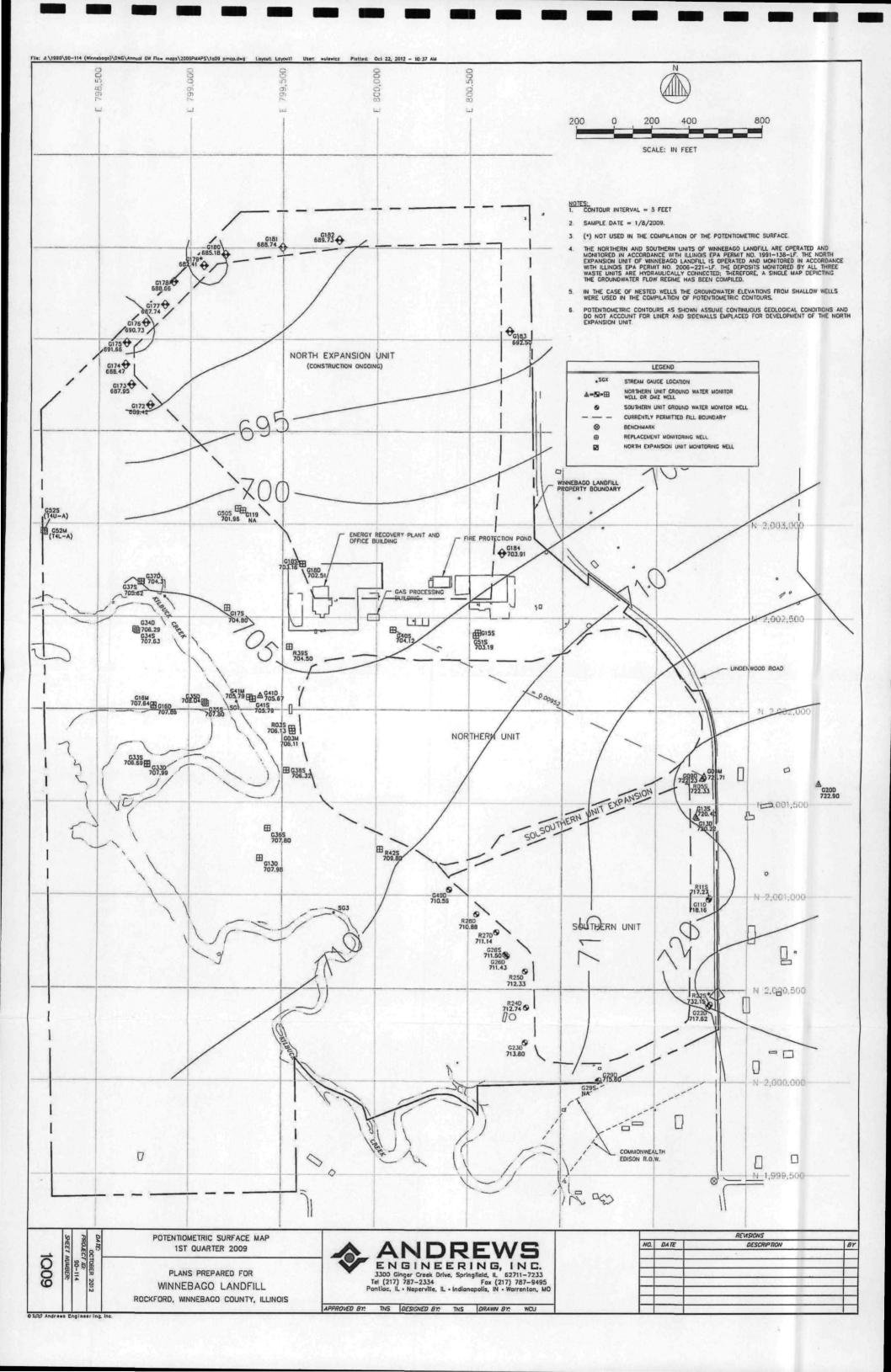
Appendix A
Potentiometric Surface Maps

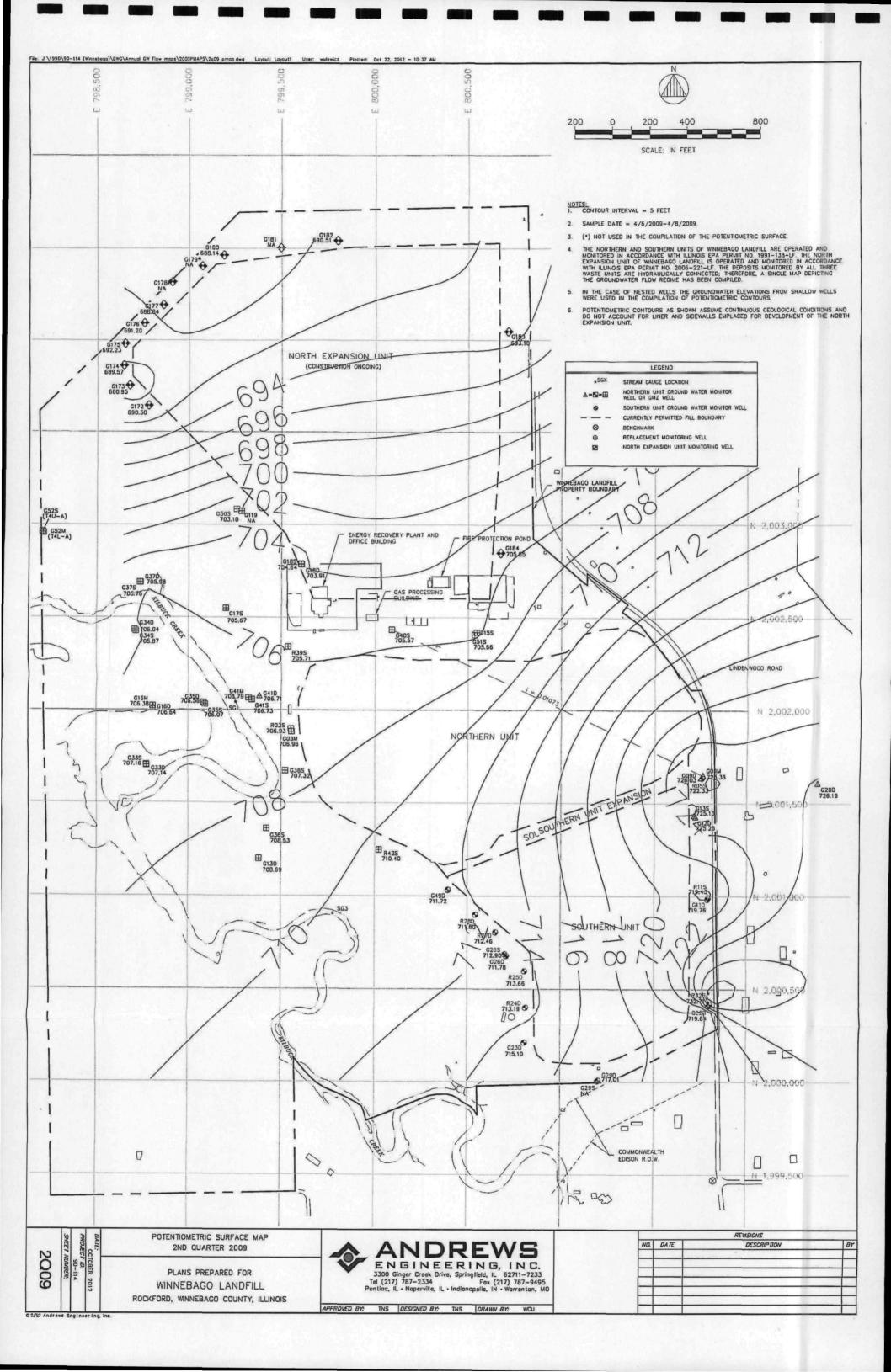


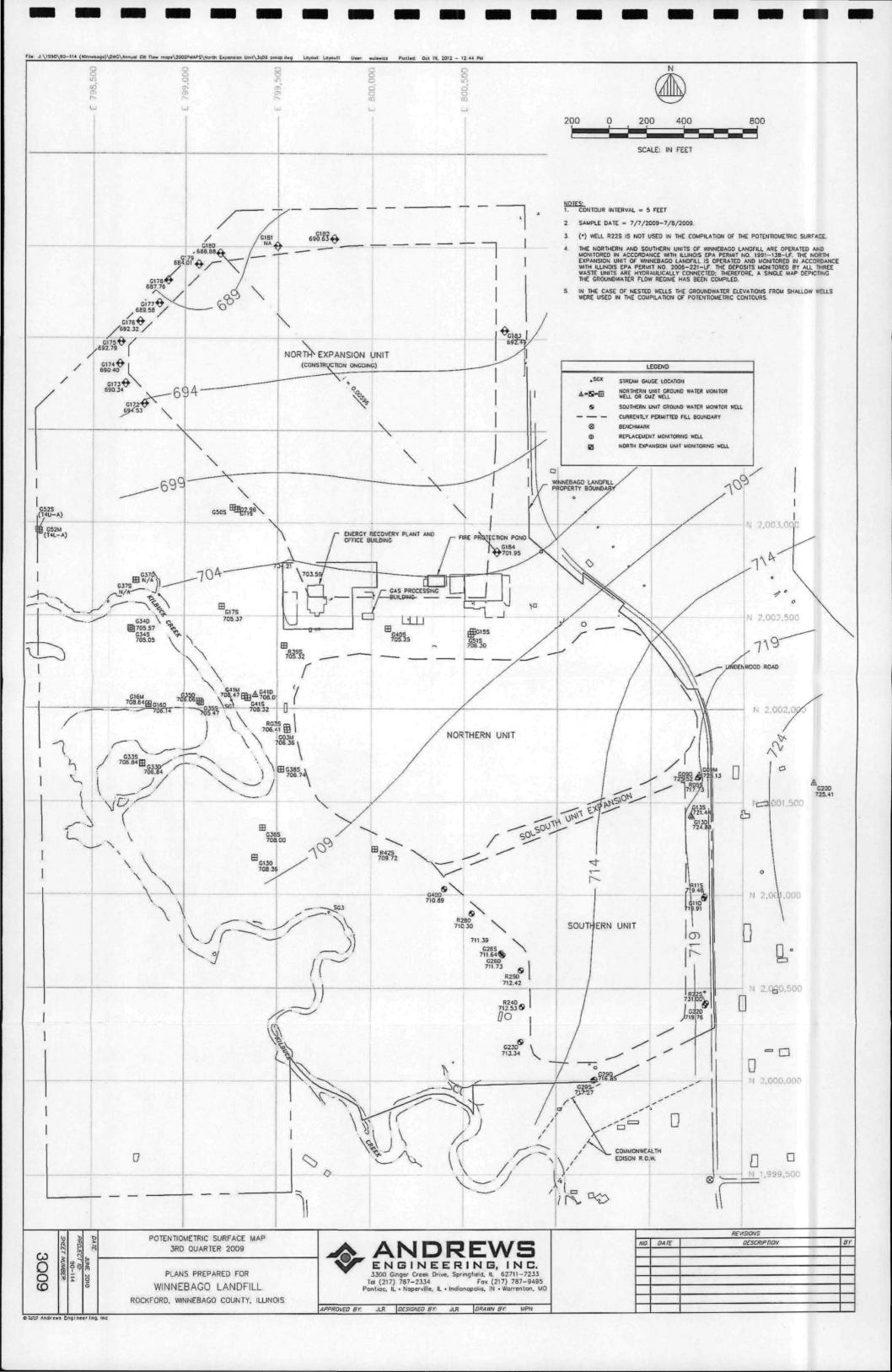


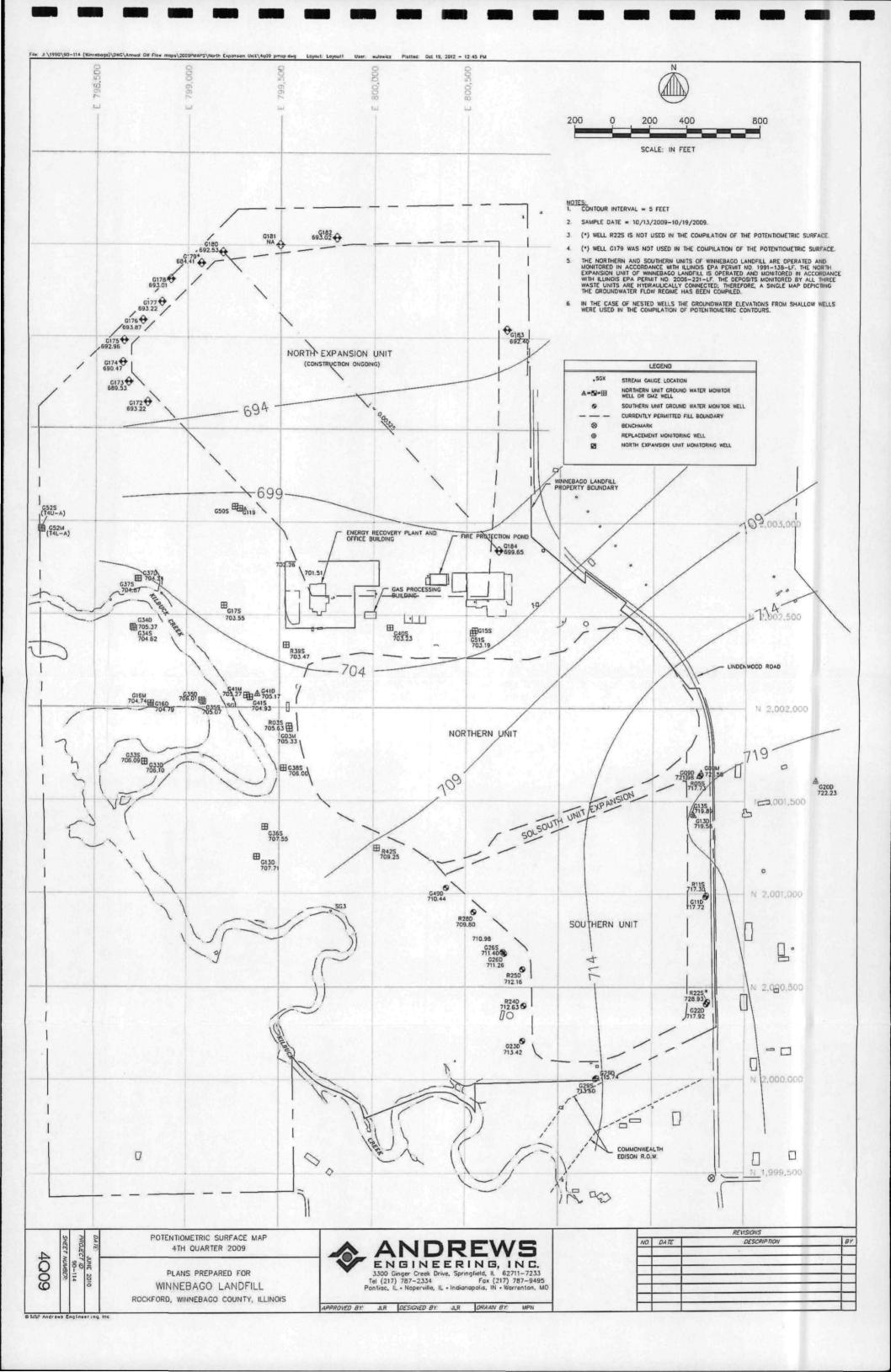


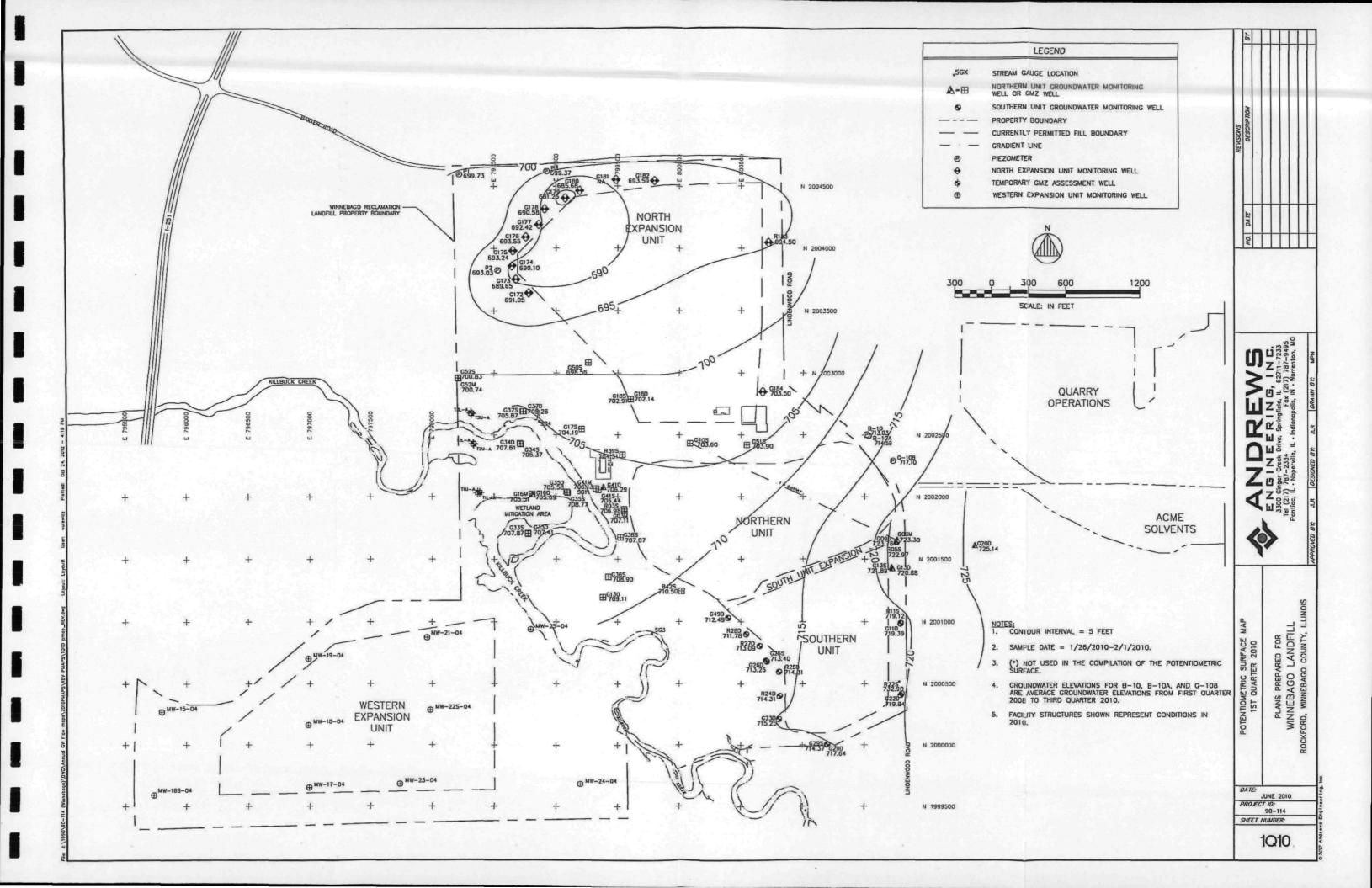


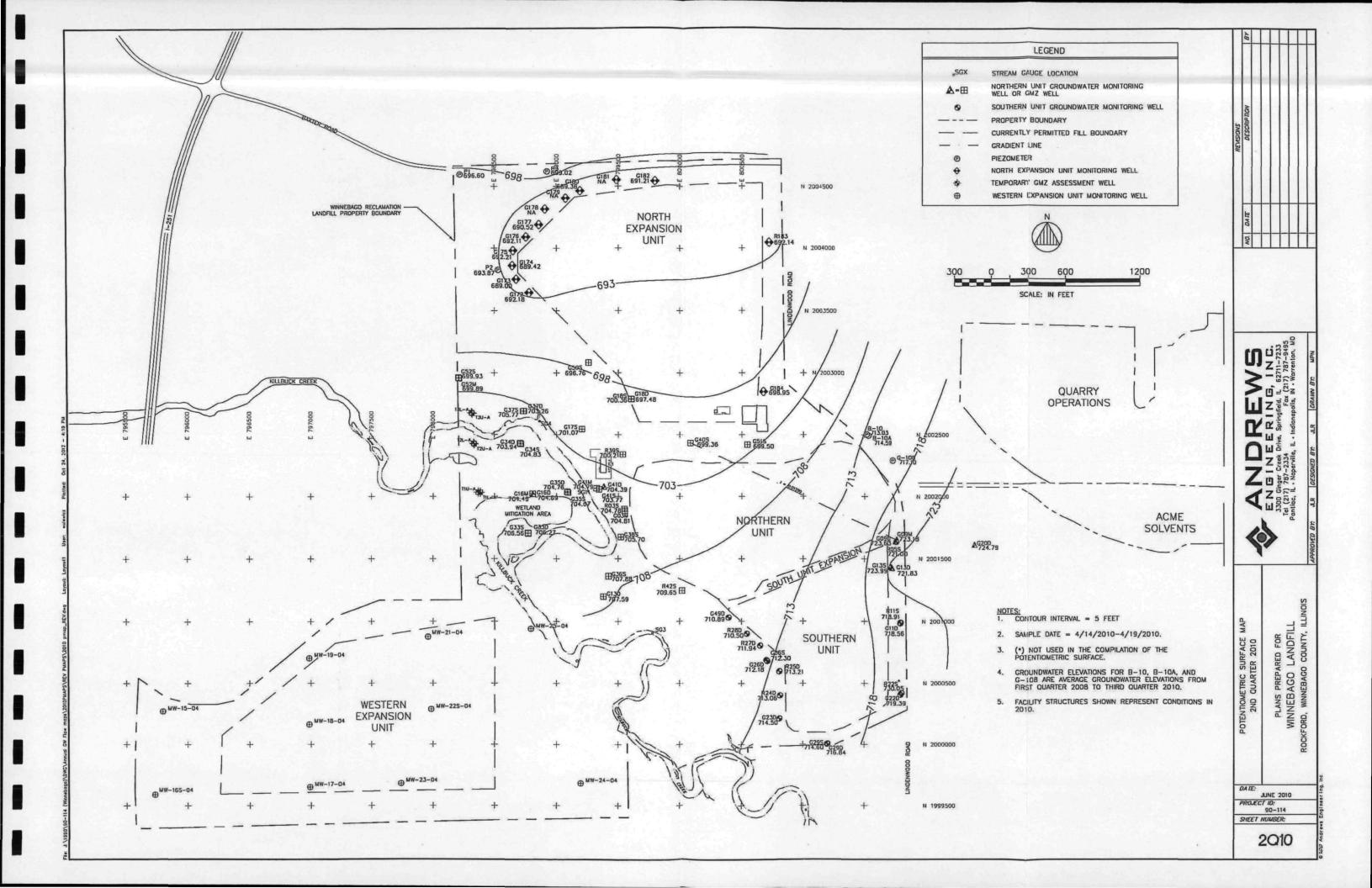


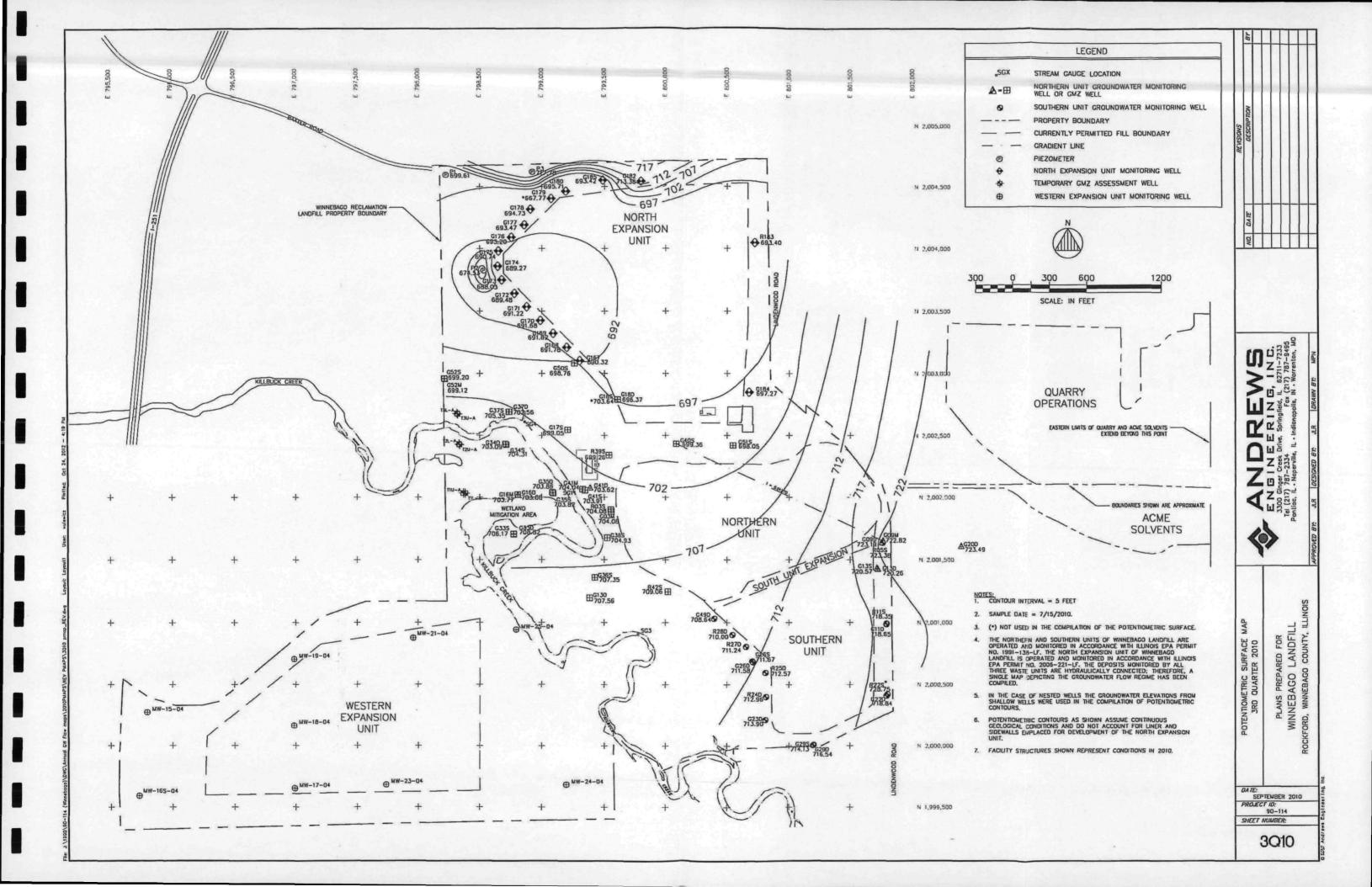


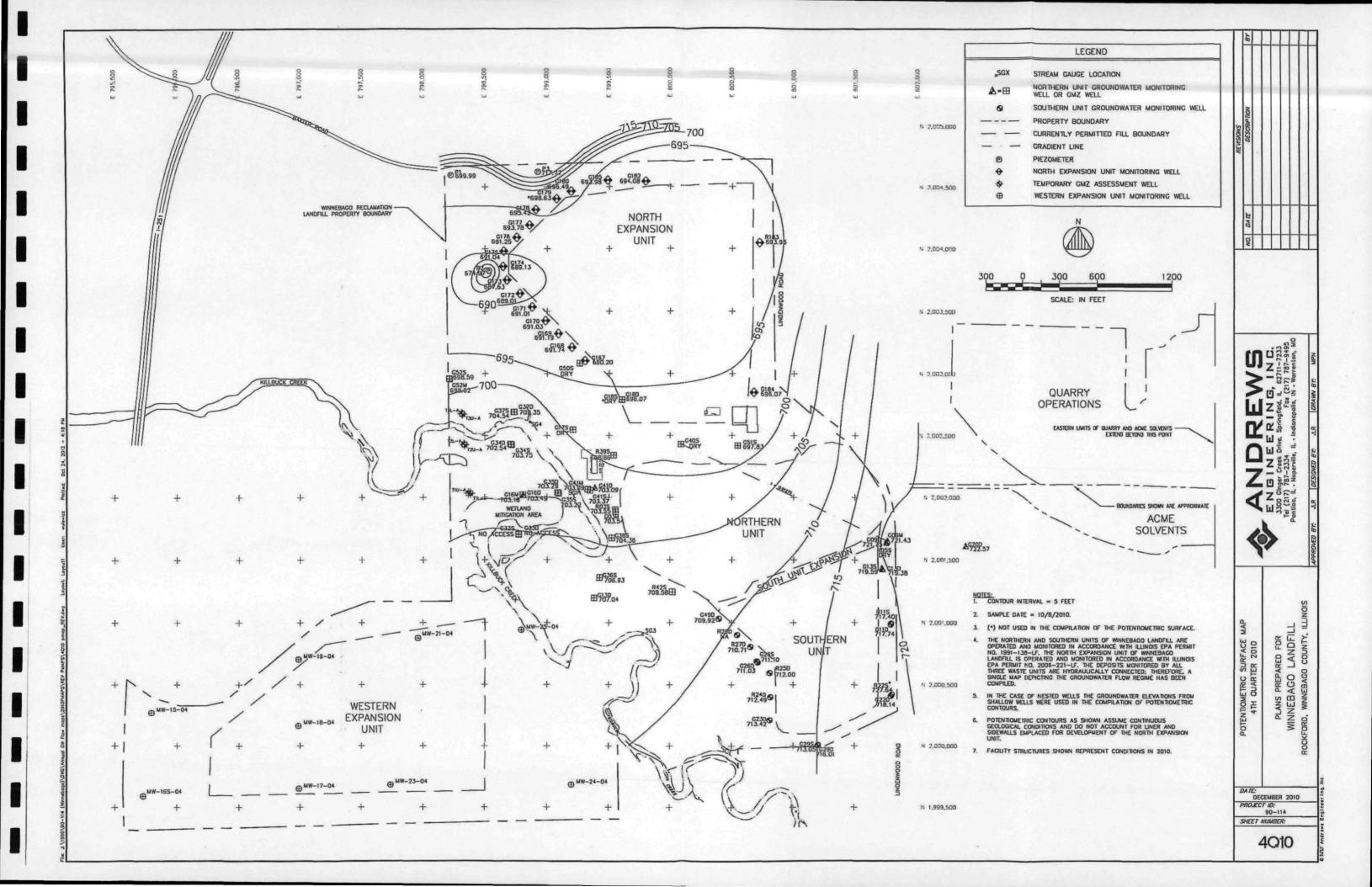


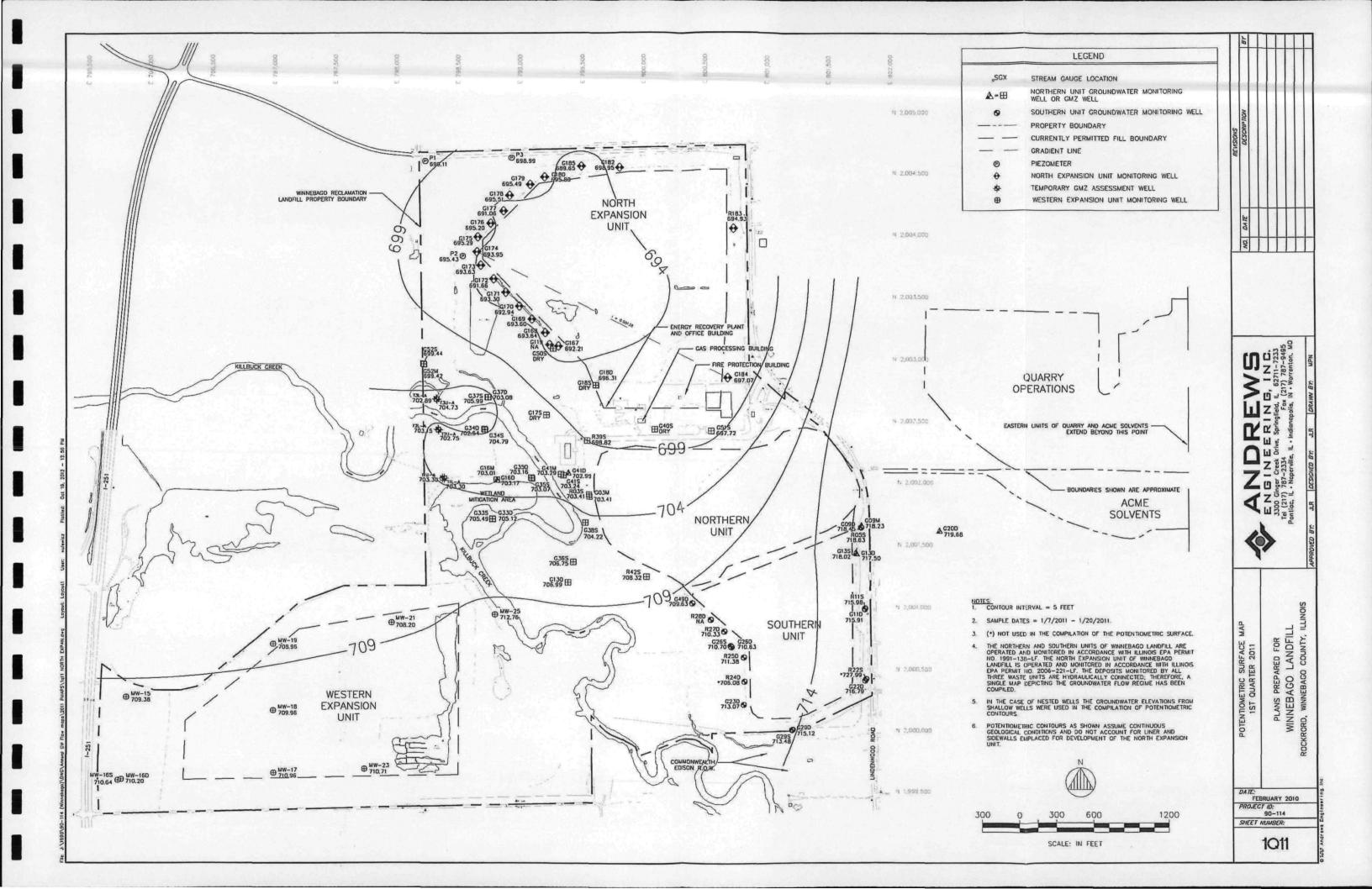


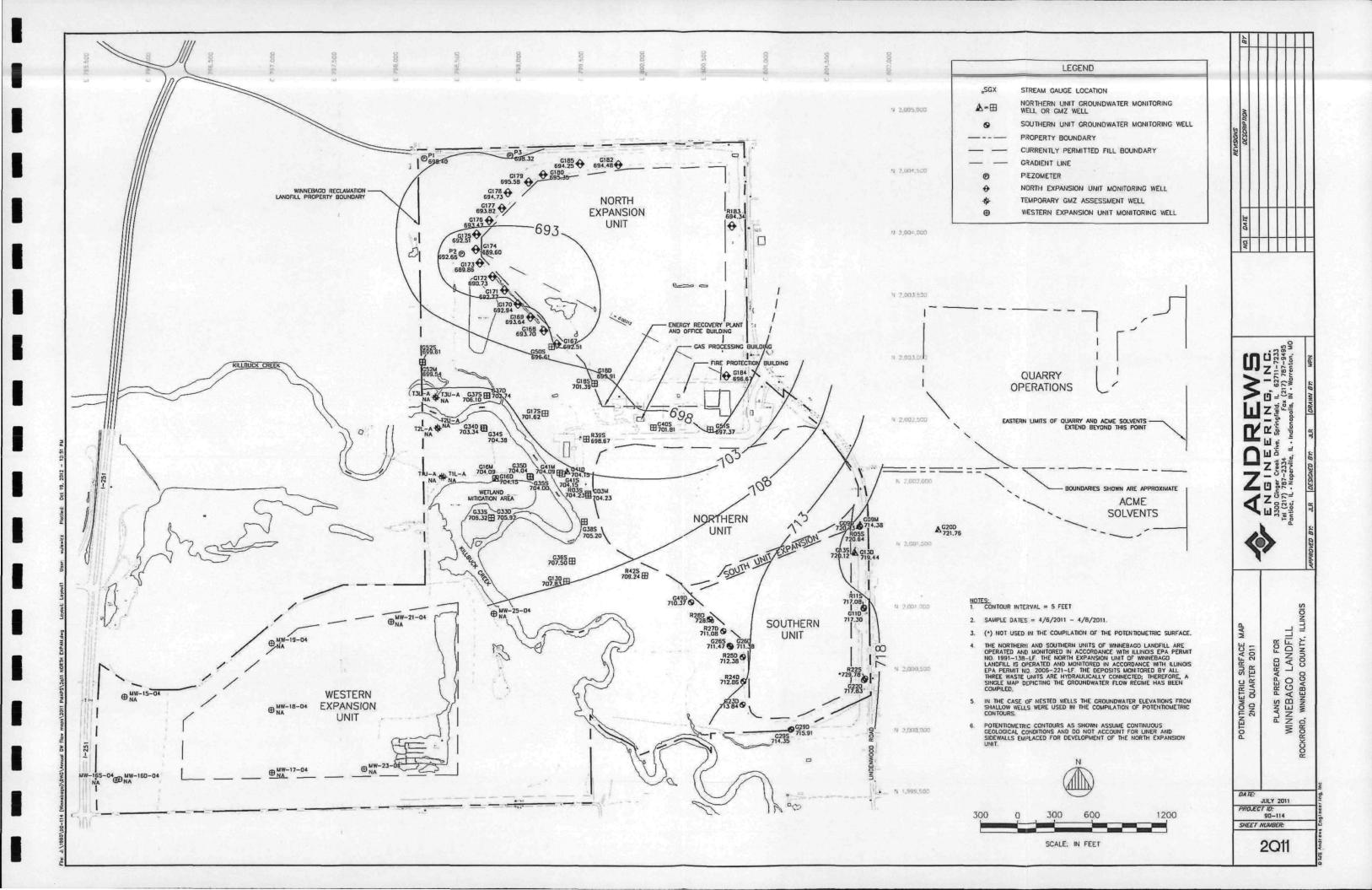


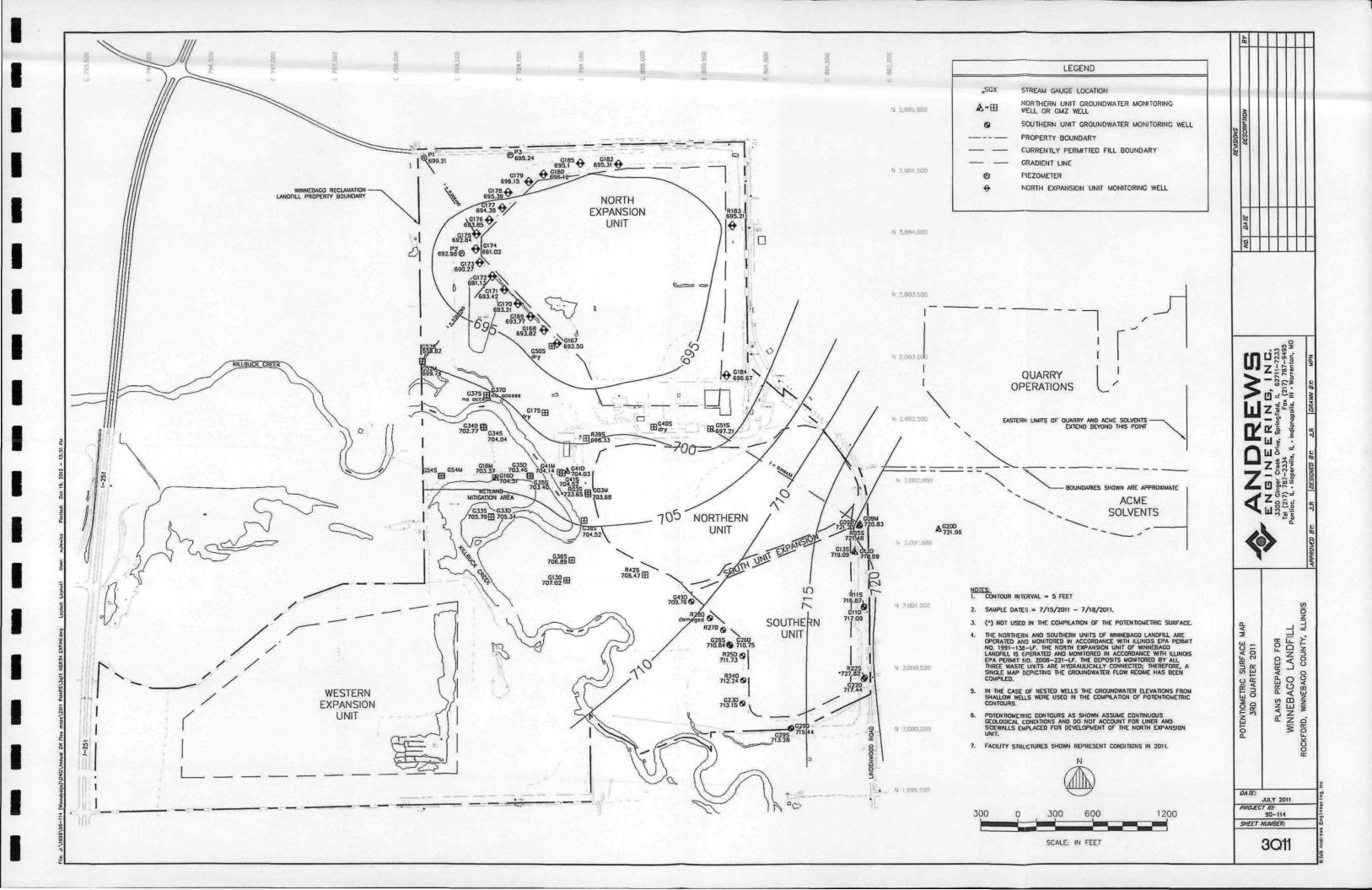


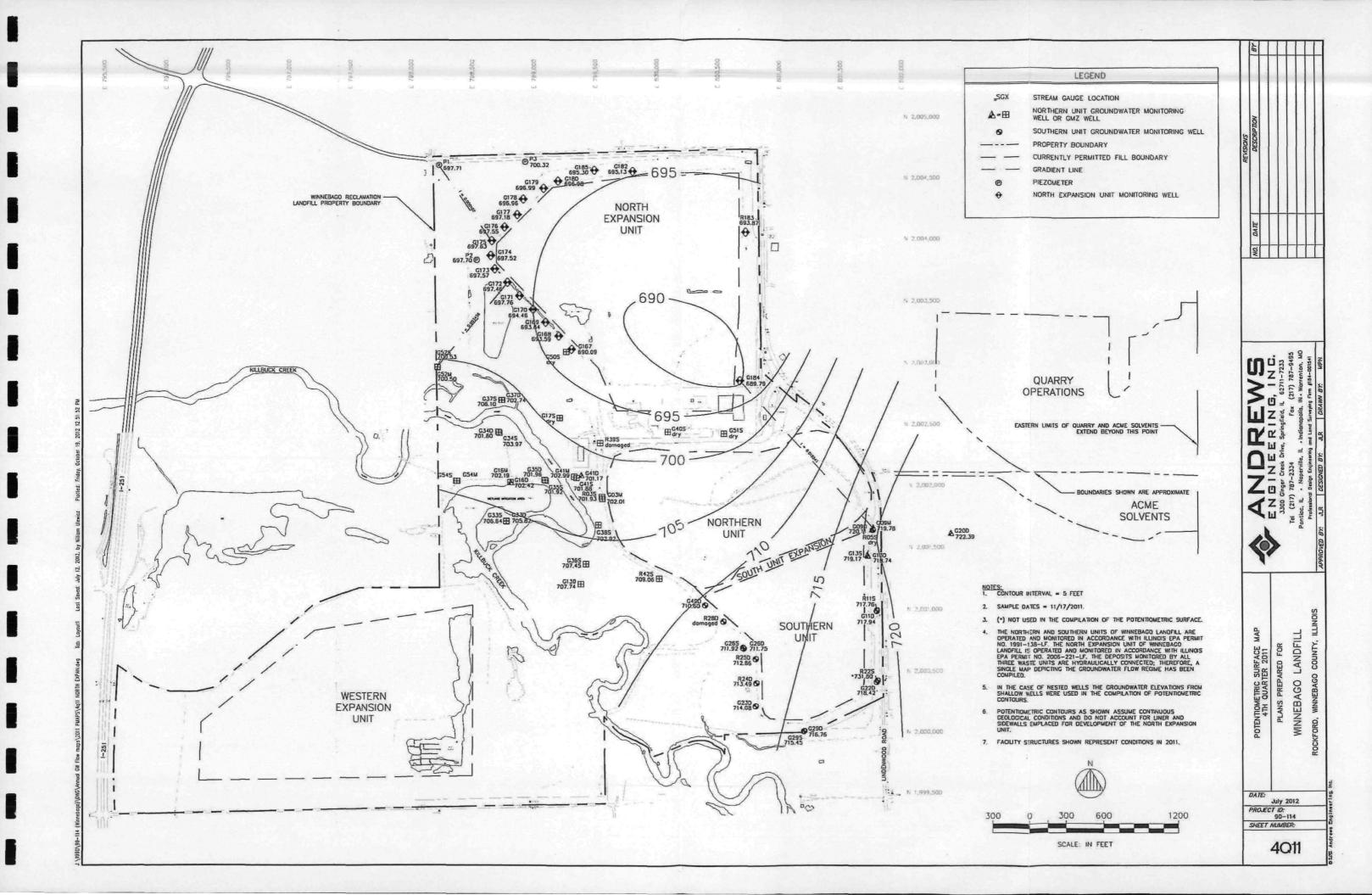


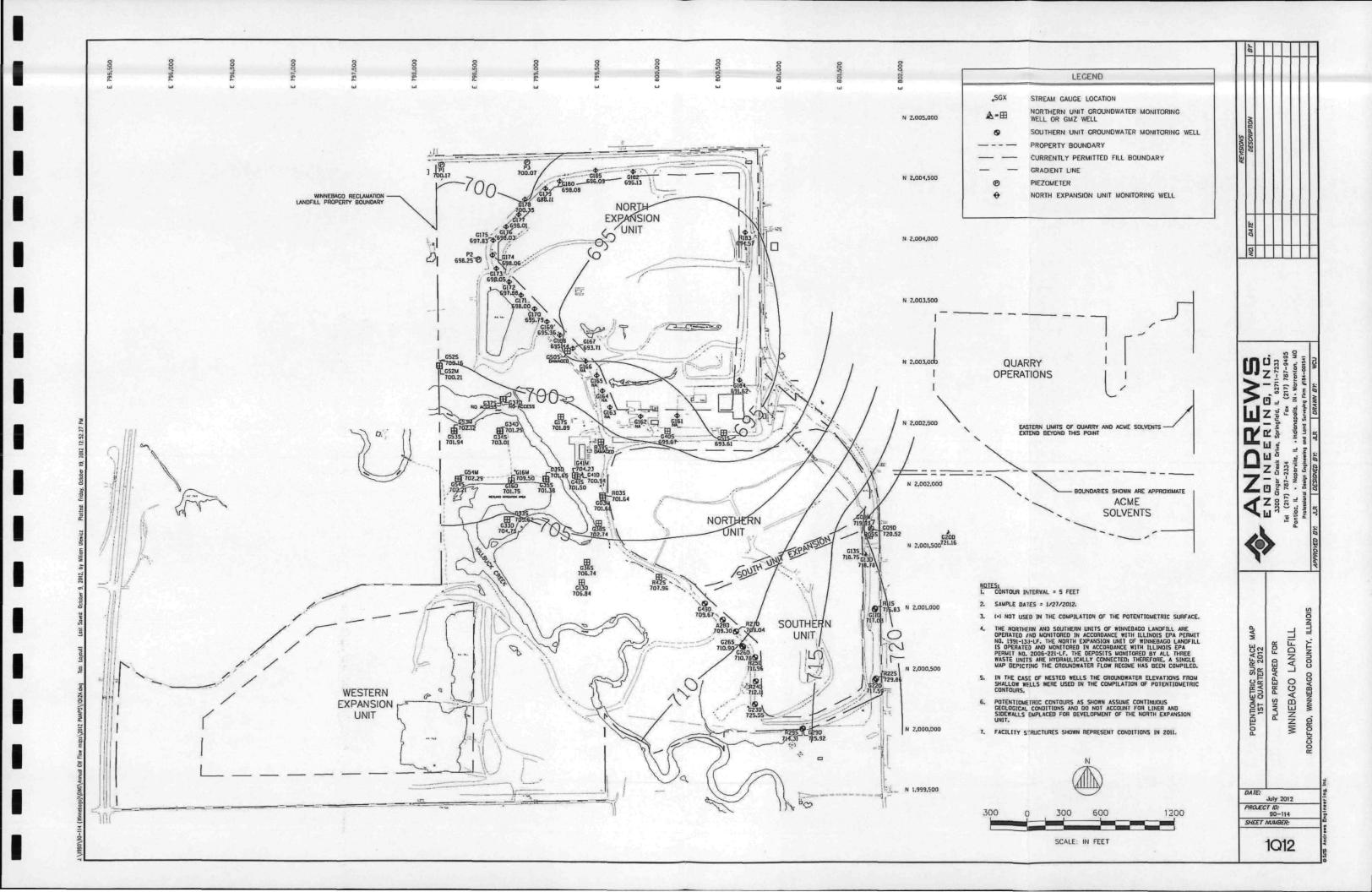


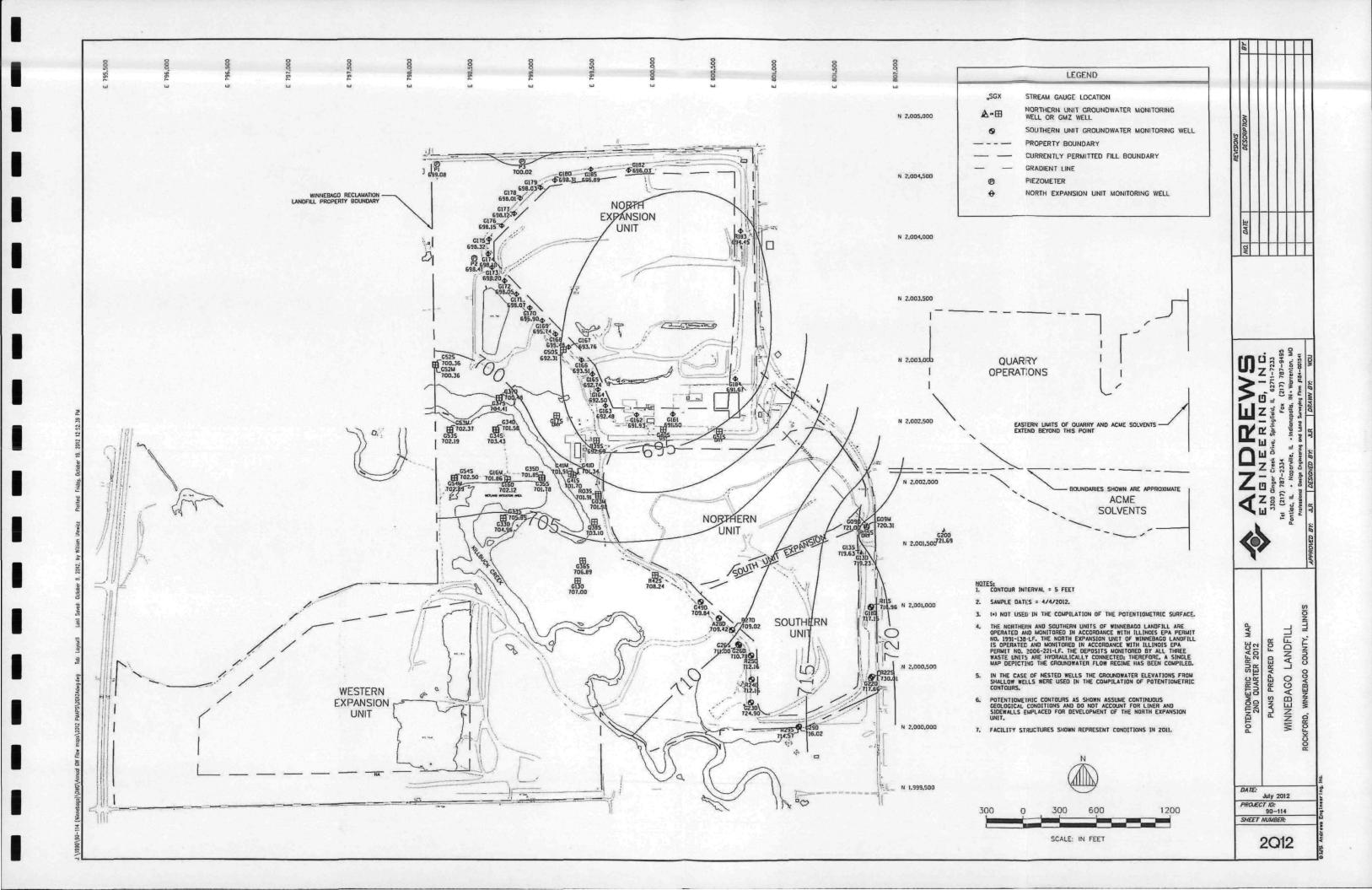


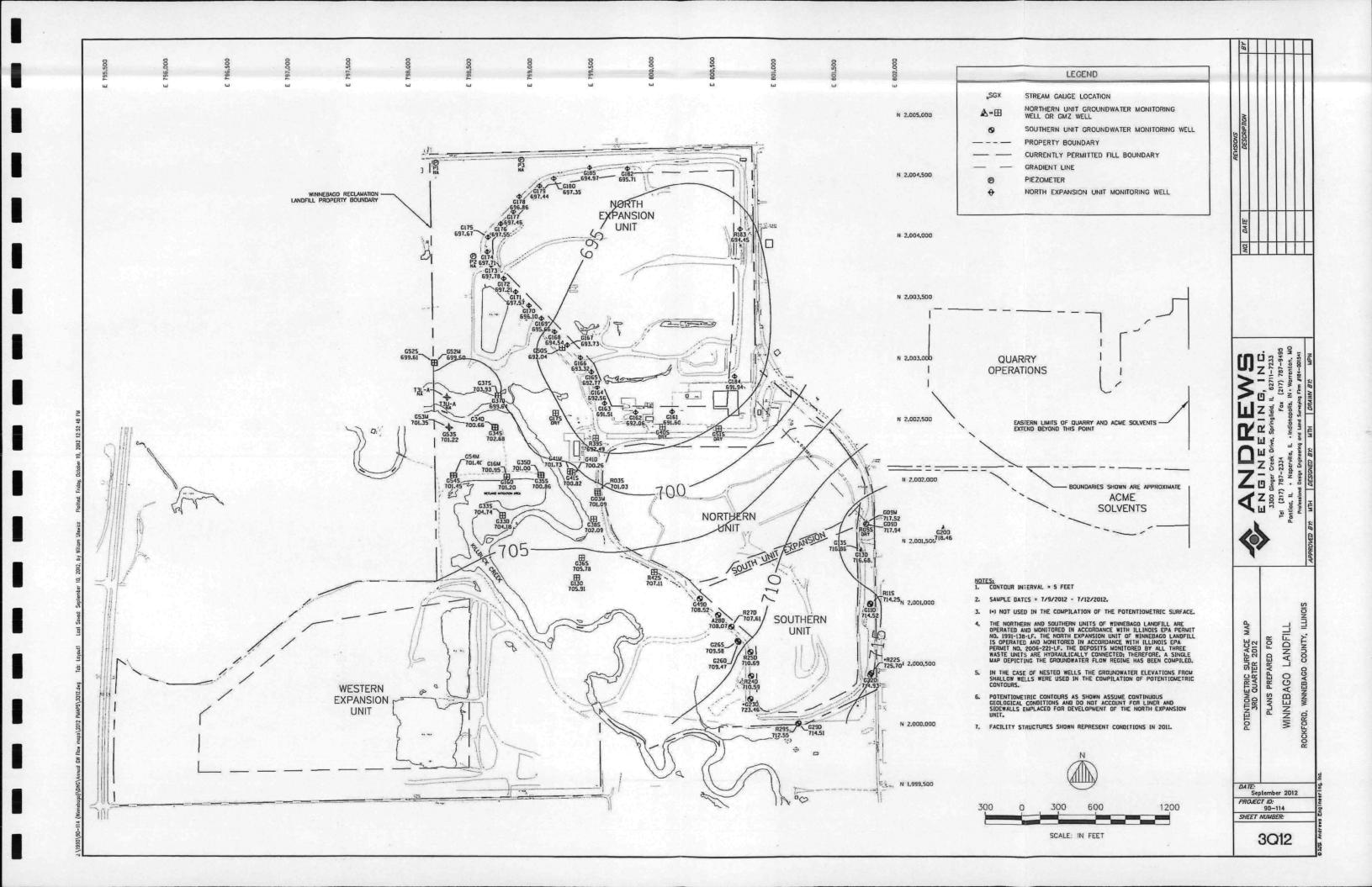


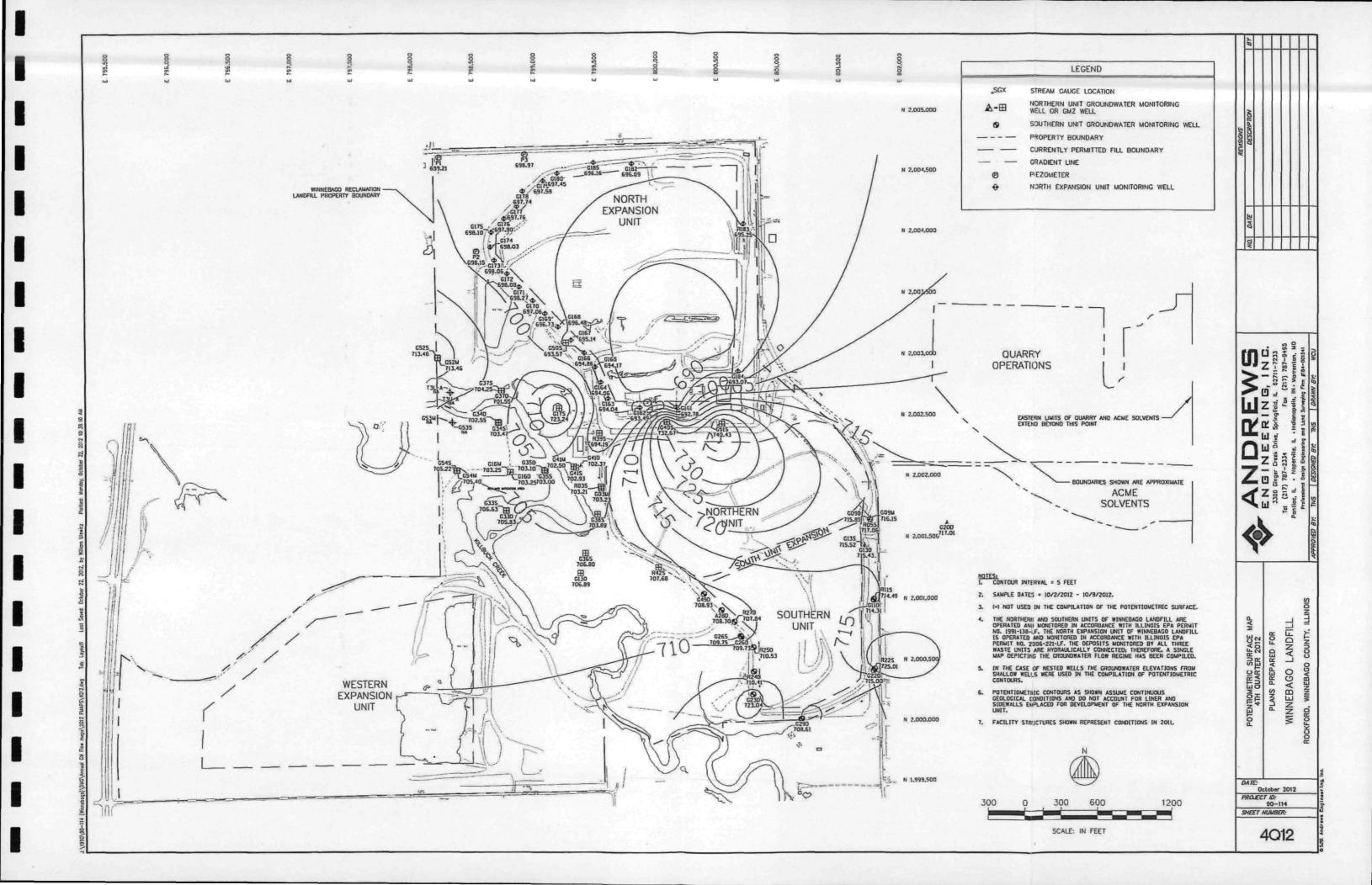












Appendix B

Second Quarter 2008 Laboratory Equipment Blank Documentation



PDC Laboratories, Inc.

PCv. Bost 2071 • Record. H. (05/12-207) (205) 612-9682 • (889) 782-865) • FAX (200) 683-9832



William Charles Waste Companies 5450 Wansford Way, Suite 201B

Date Received:

14-May-08

Date Reported

18-Mar-09

Rockford, IL 61109-1759

Attn: Mr. Evan Buskohl

Sample No: 08052668-5		Collect Date: 14-May-08 7:08							
Client Id: NORTH UNIT	Site: EQUIPMENT BLANK			Locator: WINNEBAGO LF					
		Result	Units	Date /	Time	Ву			
EPA 1664 REV 2/99									
Hexane Ext. Material (HEM) by SPE	<	5	mg/l	21-May-08	11:30	HLB			
EPA 300.0 R2.1									
Chloride	<	-1	mg/l	15-May-08	0:07	Ignay			
Chloride, Dissolved	<	-1	mg/l	15-May-08	0:52	Ignay			
Fluoride	<	0.25	mg/l	15-May-08	0:07	Ignay			
Nitrate as N	<	0.02	mg/l	15-May-08	0:07	Ignay			
Nitrate as N. Diss.	<	0.02	mg/l	15-May-08	0:52	lgnay			
Sulfate, Dissolved	<	1	mg/l	15-May-08	0:52	Ignay			
EPA 624									
1,1,1,2-Tetrachloroethane	<	1	ug/l	23-May-08	14:14	TTS			
1,1,1-Trichloroethane	/ <	1	ug/l	23-May-08	14:14	TTS			
1,1,2,2-Tetrachloroethane	·<	1	ug/l	23-May-08	14:14	TTS			
1,1,2-Trichloroethane	<	1	ug/I	23-May-08	14:14	TTS			
1,1-Dichloroethane	· <	1	ug/l	23-May-08	14:14	TTS			
1,1-Dichloroethene	<	1	ug/l	23-May-08	14:14	TTS			
1,1-Dichloropropene	<	1	ug/l	23-May-08	14:14	πs			
1,2,3-Trichlorobenzene	:<	1	ug/l	23-May-08	14:14	TTS			
1,2,3-Trichloropropane	<	1	ug/l	23-May-08	14:14	TTS			
1,2,4-Trichlorobenzene	<	1	ug/i.	23-May-08	14:14	ŢŢS			
1,2,4-Trimethylbenzene	<	5	ug/l	23-May-08	14:14	TTS			
1,2-Dibromo-3-chloropropane	<	2	úg/l	23-May-08	14:14	TTS			
1,2-Dibromoethane	<	0.5	ug/i	23-May-08	14:14	TTS			
1,2-Dichlorobenzene	<u>.</u> <	1	ug/i	23-May-08	14:14	TTS			
1,2-Dichloroethane	,	1	ug/l	23-May-08	14:14	ΠS			
1,2-Dichloropropane	<	1	ug/l	23-May-08	14:14	TTS			
1,3,5-Trimethylbenzene	<	1	ug/l	23-May-08	14:14	TTS			
1,3-Dichlorobenzene	<	1	ug/l	23-May-08	14:14	TTS			
1,3-Dichloropropane	<	1	ug/l	23-May-08	14:14	TTS			
1,3-Dichloropropene	₹	2	ug/l	23-May-08	14:14	TTS			
1,4-Dichlorobenzene	<	1	ug/l	23-May-08	14:14	TTS,			
2,2-Dichloropropane	<	1	ug/l	23-May-08	14:14	TTS			
2-Butanone		12	ug/l	23-May-08	14:14	TTS			
2-Chlorotoluene	`<	1	ug/l	23-May-08	14:14	TTS:			
2-Нехапопе		11	ug/l	23-May-08		TTS			
4-Chlorofoluene	<	1	ug/l	23-May-08		TTS			
4-Methyl-2-pentanone	<	5	ug/l	23-May-08		TTS			
Acetone		83	ug/i	23-May-08	14:14	πs			
Acrylonitrile	<	5	ug/l	23-May-08		TTS			
Benzene	<	1	ug/li	23-May-08		TTS			
Bromobenzene	.<	1	ug/l.	23-May-08		ΠS			



PDC Laboratories, Inc.

(K.), Box (B.7) • Poorio, İ., (B.) (2-) 674 1.802) 1.47-588 •(4.60) 7.6056 (1 • PAX (30)) 680 5883



William Charles Waste Companies 5450 Wansford Way, Suite 201B

Date Received:

14-May-08

Date Reported

18-Mar-09

Rockford, IL 61109-1759

Attn: Mr. Evan Buskohl

Sample No: 08052668-5			Co	illect Date: 14-May	-08 7:08			
Client Id: NORTH UNIT	Site: EQUIPM	IENT BLAN	ıĸ	Locator: WINNEBAGO LF				
		Result	Units	Date 1	Time	Ву		
PA 624								
Bromochloromethane	<	1	ug/i	23-May-08	14:14	ŢTS		
Bromodichloromethane	<.	1	ug/i	23-May-08	14:14	TTS		
Bromoform	<`	1	ug/i	23-May-08	14:14	TTS		
Bromomethane	<	2	ug/l	23-May-08	14:14	TTS		
Carbon Disulfide	د ,	1	ug/l	23-May-0B	14:14	πs		
Carbon Tetrachloride	4	1	ug/l	23-May-08	14:14	TTS		
Chlorobenzene	<	1	ug/l	23-May-08	14:14	TTS		
Chloroethane	<∵	2	ug/l	23-May-08	14:14	πs		
Chloroform	<-	1	ug/l	23-May-08	14:14	TTS		
Chloromethane,	<	2	ug/l	23-May-08	14:14	TTS		
cis-1,2-Dichloroethene	× ×	1	ug/l	23-May-08	14:14	TTS		
cis-1,3-Dichloropropene	<	1	ug/l	23-May-08	14:14	TTS		
Dibromochloromethane	<	1	ug/l	23-May-08	14:14	TTS		
Dibromomethane	<	1	ug/l	23-May-08	14:14	ŢŢS		
Dichlorodifluoromethane	<	2	ug/l	23-May-08	14:14	TTS		
Ethylbenzene	<	1	ug/l	23-May-08	14:14	TTS		
lodomethane	<	1	ug/l	23-May-08	14:14	TTS		
Isopropylbenzene	<	1	ug/l	23-May-08	14:14	TTS		
Methylene Chloride	<	5	ug/l	23-May-08	14:14	TTS		
n-Butanol	<	1000	'ug/l	23-May-08	14:14	TTS		
n-Propylbenzene	<	1	ug/l	23-May-08	14:14	TTS		
p-Isopropyltoluene	₹	1	ug/l	23-May-08	14:14	TTS		
sec-Butylbenzene	*	1	ug/l	23-May-08	14:14	TTS		
Styrene	<	1	ug/l	23-May-08	14:14	TTS		
tert-Butylbenzene	<	1	ug/l	23-May-08	14:14	TTS		
Tetrachloroethene	<	1	ug/l	23-May-08	14:14	TTS		
Tetrahydrofuran	<	5	ug/l	23-May-08	14:14	TTS		
Toluene	<.	1	ug/l	23-May-08	14:14	TTS		
trans-1,2-Dichloroethene	<	1	ug/l	23-May-08	14:14	TTS		
trans-1,3-Dichloropropene	·<	·1	ug/l	23-May-08		TTS		
trans-1,4-Dichloro-2-Butene	<	1	ug/l	23-May-08	14:14	πs		
Trichloroethene	<	1	ug/l	23-May-08		ΠS		
Trichlorofluoromethane	<	1	ug/l	23-May-08		TTS		
Vinyl Acetate	ζ.	5	ug/l	23-May-08		TTS		
Vinyl Chloride	<	2	ug/l	23-May-08		TTS		
Xylenes (Total)	<	2	ug/l	23-May-08		TTS		
PA 625			-					
Hexachlorobutadiene	<	2	ùg/l	21-May-08	3:56	PSB		
Naphthalene	<	10	ug/l	21-May-08		PSB		



PDC Laboratories. Inc.



William Charles Waste Companies 5450 Wansford Way, Suite 201B

Date:Received:

14-May-08

Date Reported

18-Mar-09

Rockford, IL 61109-1759

Attn: Mr. Evan Buskohl

Sample No: 08052668-5			C	ollect Date: 14-May	-08 7:08		
Client Id: NORTH UNIT	Site: EQUIPM	ENT BLAN	ıK.	Locator: WINNEBAGO LF			
		Result	Units	Date /	Time	Ву	
SM (18) 2540C							
Solids, Total Dissolved, Filtered	<	17	mg/l	15-May-08	14:46	MBB	
SM (18) 4500 NH3 B,H							
Nitrogen, Ammonia as N	<u> </u>	0.09	mg/l	21-May-08	14:30	TIN	
Nitrogen, Ammonia as N, Diss.	.<	0.09	mg/l	21-May-08	14:29	TIN	
SM (18) 5530B,D							
Phenolics	<	0.005	mg/l	21-May-08	12:08	lgarg	
SM 4500 CN C/SW9012A							
Cyanide, Total	R<	0.005	mg/l	20-May-08	10:24	lgarg	
SW-846 3015							
Sample Preparation				16-May-08	10:15	BAB	
SW-846 6020							
Arsenic	<	1	ug/l	27-May-08	17:46	WML	
Arsenic, Dissolved	<	1	uig/l	28-May-08	14:49	JMW	
Barium	<	1	ug/l	27-May-08	17:46	JMW	
Boron		28	ug/l	28-May-08	9:09	MML	
Boron, Dissolved	¹ <	10	ug/l	29-May-08	6:46	JMW	
Cadmium, Dissolved	<	1	ug/l	28-May-08	14:49	JMW	
Chromium, Dissolved	.<	4	ug/l	07-Jul-08	13:35	WML	
Lead, Dissolved	₹	1	ug/l	28-May-08	14:49	.JMW	
Magnesium, Dissolved	<	0.1	mg/l	07-Jul-08	13:35	JMW	
Mercury, Dissolved	H<	0.2	ug/l	08-Jul-08	9:19	JMW	
Potassium	<.	0.1	mg/l	27-May-08	17:46	JMW	
Sodium	<	0.1	mg/l	27-May-08	17:46	JMW	
Zinc, Dissolved	<:	6	ug/l	28-May-08	14:49	ÚMÚ	

H - Method Hold Time Exceeded

PDC Laboratories participates in the following laboratory accreditation/certification and proficiency programs. Endorsement by the Federal or State Government or their agencies is not implied.

NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230 State of Illinois Bacteriological Analysis in Drinking Water Certified Lab Registry No. 17533

Drinking Water Certifications: Indiana (C-IL-04); Kansas (E-10338); Kentucky (90058); Missouri (00870); Wisconsin (998294430)

Wastewater Certifications: Arkansas; Iowa (240); Kansas (E-10338); Wisconsin (99829443

Hazardous/Solid Waste Certifications: Arkansas; Kansas (E-10338); Wisconsin (998294430)

UST Certification: Iowa (240)

Certified by: Dail of Schundler
Gail Schindler, Project Manager

This Report shall not be reproduced, except in full, without the written approval of the laboratory.

08052668

Page 14 of 14